

Known Bioactive Library: LOPAC 1

ICCB-L Plate	ICCB-L Well	Vendor ID	Compound Name	Sec Name	Class	Enzyme	Action	Selectivity	Description
3260	A03	120693	DL-alpha-Methyl-p-tyrosine	4-Hydroxy-alpha-methylphenylalanine	Neurotransmission	Enzyme	Inhibitor	Tyrosine hydroxylase	Inhibitor of catecholamine synthesis and tyrosine hydroxylase
3260	A05	291552	6-Methoxy-1,2,3,4-tetrahydro-9H-pyrido[3,4b] indole		Neurotransmission	Enzyme	Inhibitor	MAO	MAO inhibitor
3260	A07	A 0500	Acetamide	Amide C2	Biochemistry	Enzyme	Inhibitor	Carbonic anhydrase	Carbonic anhydrase inhibitor
3260	A09	A 1260	Amantadine hydrochloride	Tricyclo[3.3.1.1 3,7]decan-1-amine hydrochloride	Dopamine		Releaser		Dopamine releaser used in the treatment of Parkinsonism and drug-related extrapyramidal reactions; antiviral (Influenza A)
3260	A11	A 2129	GABA	gamma-Aminobutyric acid	GABA		Agonist		Endogenous neurotransmitter
3260	A13	A 3539	Gabaculine hydrochloride		GABA	Enzyme	Inhibitor	GABA transaminase	GABA transaminase inhibitor; conformationally constrained GABA analog
3260	A15	A 4508	O-(Carboxymethyl)hydroxylamine hemihydrochloride	Aminoxyacetic acid; (Carboxymethoxy)amine hemihydrochloride	Biochemistry	Enzyme	Inhibitor	Aminotransferase	Non-selective aminotransferase inhibitor
3260	A17	A 5157	(±)-2-Amino-7-phosphonoheptanoic acid	(±)-AP-7	Glutamate		Antagonist	NMDA	NMDA glutamate receptor antagonist; anticonvulsant
3260	A19	A 5909	N-Acetylprocainamide hydrochloride	Acedainide; N-Acetylnovocainamide hydrochloride; NAPA	Na+ Channel		Blocker		Blocks Na+ channels and appears to have Class III anti-arrhythmic activity; metabolite of Procainamide
3260	A21	A 6671	Actinonin	3-[[1-[(2-(Hydroxymethyl)-1-pyrrolidiny)carbonyl]-2-methylpropyl]carbonyl]octanoic acid	Biochemistry	Enzyme	Inhibitor	Leucine aminopeptidase	Leucine aminopeptidase inhibitor
3260	C03	144509	N-Phenylanthranilic acid	Diphenylamine-2-carboxylic acid; DPC	Cl- Channel		Blocker		Cl- channel blocker
3260	C05	861669	S-(4-Nitrobenzyl)-6-thioguanosine	2-Amino-6-[(4-Nitrobenzyl)thio]-9-beta-D-ribofuranosylpurine	Adenosine		Inhibitor		Potent adenosine transport inhibitor
3260	C07	O7639	Org 24598 lithium salt	R-(-)-N-Methyl-N-[3-[(4-trifluoromethyl)phenoxy]-3-phenylpropyl]glycine lithium salt	Neurotransmission		Inhibitor	GlyT1	Selective, potent inhibitor of glial GlyT (GlyT1, glycine transporter type 1).
3260	C09	A 1755	Aminophylline ethylenediamine	Theophylline ethylenediamine	Adenosine		Antagonist	A1/A2	A1/A2 adenosine receptor antagonist; diuretic; cardiac stimulant; smooth muscle relaxant
3260	C11	A 2169	3'-Azido-3'-deoxythymidine	Azidothymidine; AZT	Immune System	Enzyme	Inhibitor	Reverse transcriptase	Reverse transcriptase inhibitor; active against HIV-1 virus
3260	C13	Y 4877	YM 976	4-(3-Chlorophenyl)-1,7-diethylpyrido[2,3-d]pyrimidin-2(1H)-one	Cyclic nucleotides	Enzyme	Inhibitor	PDE 4	Phosphodiesterase type IV (PDE4) inhibitor. Exhibits anti-inflammatory activity without emesis.
3260	C15	A 4562	5-(N,N-Dimethyl)amiloride hydrochloride	3-Amino-N-(aminoiminoethyl)-5-(dimethylamino)-6-chloropyrazinocarboxamide hydrochloride; DMA	Ion Pump		Blocker	Na+/H+ Antiporter	Selective blocker of Na+/H+ antiport
3260	C17	A 5282	(±)-2-Amino-5-phosphonopentanoic acid	(±)-AP-5; (±)-AP-V	Glutamate		Antagonist	NMDA	NMDA glutamate receptor antagonist
3260	C19	T 9034	Sodium Taurocholate hydrate	3alpha,7alpha,12alpha-Trihydroxy-5beta-cholan-24-oic-acid N-(2-sulfoethyl)amide	Multi-Drug Resistance		Modulator	Conjugate Pathway	Multi-drug resistance conjugate pathway modulator.
3260	C21	A 6770	Methotrexate hydrate	Methylaminopterin; MTX	DNA Metabolism		Inhibitor		Folic acid antagonist
3260	E03	190047	S(-)-p-Bromotetramisole oxalate	R 30402 oxalate	Phosphorylation	Enzyme	Inhibitor	Alkaline phosphatase	Potent alkaline phosphatase inhibitor
3260	E05	861804	TMB-8 hydrochloride	8-(Diethylamino)octyl 3,4,5-trimethoxybenzoate hydrochloride	Intracellular Calcium		Antagonist		Intracellular Ca2+ antagonist; inhibits calmodulin-sensitive Ca2+-ATPase activity; protein kinase C inhibitor
3260	E07	A 0760	L-azetidine-2-carboxylic acid	(S)-Azetidine-2-carboxylic acid	Biochemistry		Inhibitor	Collagen	Inhibits collagen synthesis
3260	E09	A 1782	S-(p-Azidophenacyl)glutathione		Multi-Drug Resistance	Enzyme	Modulator	Glutathione S-transferase	Glyoxalase and glutathione S-transferase inhibitor
3260	E11	A 2251	Acetyl-beta-methylcholine chloride	Methacholine chloride	Cholinergic		Agonist	M1	M1 muscarinic acetylcholine receptor agonist
3260	E13	A 3711	AA-861	2-(12-Hydroxydodeca-5,10-diynyl)-3,5,6-trimethyl-p-benzoquinone	Leukotriene	Enzyme	Inhibitor	5-lipoxygenase	5-lipoxygenase inhibitor
3260	E15	A 4638	Azathioprine		P2 Receptor	Enzyme	Inhibitor	Purine synthesis	Purine analog; purine synthesis inhibitor; immunosuppressant
3260	E17	A 5330	L-732,138	N-Acetyl-L-tryptophan 3,5-bis(trifluoromethyl)benzyl ester	Tachykinin		Antagonist	NK1 > NK2, NK3	Competitive antagonist at substance P receptors; approximately 1000-fold more potent at cloned human NK1 receptors than at cloned human NK-2 and NK-3 receptors
3260	E19	A 5922	Amifostine	2-(3-Aminopropyl)aminoethyl phosphorothioate; WR2721	Cell Stress		Inhibitor	Cytoprotectant	Radioprotective agent; selectively protects normal tissues from the damaging effects of anti-neoplastic radiation therapy
3260	E21	A 6883	Atropine methyl bromide		Cholinergic		Antagonist	Muscarinic	Competitive muscarinic acetylcholine receptor antagonist

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3260	G03	194336	5-Aminovaleric acid hydrochloride	5-Aminopentanoic acid hydrochloride	GABA		Antagonist	GABA-B	Weak GABA-B receptor antagonist
3260	G05	A 0152	4-Aminopyridine		K+ Channel		Blocker	A-type	Induces depolarization of GABA neurons; weak non-selective K+-channel blocker; anticonvulsant
3260	G07	A 0779	p-Aminoclonidine hydrochloride	Apraclonidine hydrochloride	Adrenoceptor		Agonist	alpha2	alpha2 Adrenoceptor agonist
3260	G09	A 1784	Aminopterin	4-Aminofolic acid	Antibiotic	Enzyme	Inhibitor	Dihydrofolate reductase	Dihydrofolate reductase inhibitor
3260	G11	A 2385	5-azacytidine	4-Amino-1-(beta-D-ribofuranosyl)-1,3,5-triazin-2(1H)-one; Ladakamycin	DNA Metabolism	Enzyme	Inhibitor	DNA methyltransferase	DNA methyltransferase inhibitor
3260	G13	A 3773	9-Amino-1,2,3,4-tetrahydroacridine hydrochloride	Tacrine hydrochloride; THA hydrochloride	Cholinergic	Enzyme	Inhibitor	Cholinesterase	Cholinesterase inhibitor; reported to be useful in the treatment of Alzheimer's disease
3260	G15	A 4669	Acyclovir	Acycloguanosine	Immune System	Enzyme	Inhibitor	Viral DNA synthesis	Antiviral agent
3260	G17	A 5376	Acetylsalicylic acid	O-Acetylsalicylic acid; Aspirin	Prostaglandin	Enzyme	Inhibitor	COX-3 > COX-1 > COX-2	COX inhibitor; antithrombotic
3260	G19	A 6011	Acetazolamide	N-[5-(Aminosulfonyl)-1,3,4-thiadiazol-2-yl]acetamide	Biochemistry	Enzyme	Inhibitor	Carbonic anhydrase	Carbonic anhydrase inhibitor; diuretic
3260	G21	A 6976	Amperozide hydrochloride	4-[4,4-bis(4-Fluorophenyl)butyl]-N-ethyl-1-piperazinecarboxamide hydrochloride	Serotonin		Ligand		Atypical antipsychotic drug with high affinity for serotonin receptors and low affinity for D2 dopamine receptors
3260	I03	211672	(±)-Nipecotic acid	(±)-3-Piperidine carboxylic acid	GABA		Inhibitor	Uptake	GABA uptake inhibitor
3260	I05	A 0257	Atropine sulfate		Cholinergic		Antagonist	Muscarinic	Muscarinic acetylcholine receptor antagonist
3260	I07	A 0788	3-aminobenzamide	3-ABA; 3-AB	Apoptosis	Enzyme	Inhibitor	PARS	Poly(ADP-ribose) synthetase (PARS) inhibitor
3260	I09	A 1824	N-Acetyl-5-hydroxytryptamine	N-Acetylserotonin; Normelatonin	Melatonin		Precursor		Immediate precursor of melatonin
3260	I11	A 3085	5-(N-Ethyl-N-isopropyl)amiloride	EIPA	Ion Pump		Blocker	Na+/H+ Antiporter	Selective blocker of Na+/H+ antiport
3260	I13	F3680	10058-F4	5-[(4-Ethylphenyl)methylene]-2-thioxo-4-thiazolidinone	Apoptosis	Enzyme	Inhibitor	c-Myc	Inhibits c-Myc-Max interaction and prevents transactivation of c-Myc target gene expression.
3260	I15	PZ0004	Varenicline tartrate	Champix, 7,8,9,10-Tetrahydro-6,10-methano-6H-pyrazino[2,3-h][3]benzazepine tartrate	Cholinergics		Agonist	a4β2 receptors	Varenicline tartrate is a partial a4β2 nicotinic receptor agonist and a7 full agonist. Varenicline competitively binds to a4β2 receptors and partially stimulates without creating a full nicotine effect, while simultaneously blocking the ability of nic...
3260	I17	A 8001	Aconitine	Acetylbenzoylaconine	Ion Pump		Blocker	Na+/H+ Antiporter	Neurotoxin. Activates tetrodotoxin-sensitive Na+ channels. Aconitine also blocks norepinephrine reuptake
3260	I19	A 6134	Arecoline hydrobromide	1-Methyl-1,2,5,6-tetrahydro-3-pyridinecarboxylic acid methyl ester hydrobromide	Cholinergic		Agonist		Acetylcholine receptor agonist
3260	I21	A 7009	Aminoguanidine hemisulfate	Hydrazinecarboximidamide hemisulfate	Nitric Oxide	Enzyme	Inhibitor	NOS	Selective nitric oxide synthase inhibitor
3260	K03	246379	Azelaic acid	Dicarboxylic acid C9; Nonanedioic acid; AZA	DNA Metabolism	Enzyme	Inhibitor		Antiproliferative on melanoma cells; inhibits mitochondrial oxidoreductases of the respiratory chain and inhibits DNA synthesis
3260	K05	A 0382	Atropine methyl nitrate	AMN; Methylatropine nitrate	Cholinergic		Antagonist	Muscarinic	Muscarinic acetylcholine receptor antagonist
3260	K07	A 0937	(±)-Norepinephrine (+)bitartrate	(±)-Arterenol (+)bitartrate; (±)-Noradrenalin (+)bitartrate	Adrenoceptor		Agonist		Adrenergic neurotransmitter
3260	K09	A 1895	Aurintricarboxylic acid	ATA	Apoptosis	Enzyme	Inhibitor	Topoll	DNA topoisomerase II inhibitor
3260	K11	A 3134	3-Aminopropionitrile fumarate		Multi-Drug Resistance	Enzyme	Substrate	CYP450	Transformed to cyanide by cytochrome P450 in liver
3260	K13	A 3940	1-Aminobenzotriazole	ABT; 1-Benzotriazolamine	Multi-Drug Resistance	Enzyme	Inhibitor	CYP450, chloroperoxidase	Cytochrome P450 and chloroperoxidase inhibitor
3260	K15	S 9318	Sandoz 58-035	3-[Decyldimethylsilyl]-N-[2-(4-methylphenyl)-1-phenethyl]propanamide	Lipid	Enzyme	Inhibitor	ACAT	Acyl-CoA:cholesterol acyltransferase (ACAT) inhibitor
3260	K17	A 5626	Acetylthiocholine chloride		Cholinergic		Agonist	Nicotinic	Nicotinic acetylcholine receptor agonist; acetylcholinesterase substrate
3260	K19	A 6351	A-315456	N-[3-(cyclohexylidene(1H-imidazol-4-ylmethyl)phenyl)ethanesulfonamide	Adrenoceptor		Antagonist	alpha1D	Selective alpha 1D-adrenoceptor antagonist
3260	K21	A 7127	Agmatine sulfate	(4-Aminobutyl)guanadine sulfate	Imidazoline		Agonist		Endogenous agonist at imidazoline receptors; may act as a neurotransmitter
3260	M03	246557	Tryptamine hydrochloride	3-(2-Aminoethyl)indole hydrochloride	Serotonin		Ligand		Serotonin receptor ligand
3260	M05	A 0384	Arcaïne sulfate	N,N'-1,4-Butanediyibis(guanidine) sulfate	Glutamate		Antagonist	NMDA-Polyamine	Potent competitive antagonist of the polyamine site on the NMDA glutamate receptor
3260	M07	A 0966	4-Amino-1,8-naphthalimide		Apoptosis	Enzyme	Inhibitor	PARP	Poly(ADP-ribose) polymerase (PARP) inhibitor
3260	M09	A 1910	(±)-2-Amino-4-phosphonobutyric acid	(±)-AP-4	Glutamate		Antagonist	NMDA	NMDA glutamate receptor antagonist
3260	M11	A 3145	Apigenin	4',5,7-Trihydroxyflavone	Cell Cycle		Inhibitor		Arrests cell cycle at G2/M phase
3260	M13	A 4147	3-Amino-1-propanesulfonic acid sodium		GABA		Agonist	GABA-A	GABA-A receptor agonist

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3260	M15	A 4910	(±)-2-Amino-3-phosphonopropionic acid	(±)-AP-3	Glutamate		Antagonist	NMDA	NMDA glutamate receptor antagonist
3260	M17	T3955	TNP	N2-(m-Trifluorobenzyl), N6-(p-nitrobenzyl)purine; N6-[(4-nitrophenyl)methyl]-N2-[[3-(trifluoromethyl)phenyl]methyl]-9H-Purine-2,6-diamine; N6-[[4-(4-nitrophenyl)methyl]-N2-[[3-(trifluoromethyl)phenyl]methyl]-1H-Purine-2,6-diamine	Ion Channels	Enzyme	Inhibitor	IP3K	TNP is a potent and selective IP6K inhibitor; less selective inhibitor of IP3K.
3260	M19	G 8543	GR 46611	3-[3-(2-Dimethylaminoethyl)-1H-indol-5-yl]-N-(4-methoxybenzyl)acrylamide	Serotonin		Agonist	5-HT1D	5-HT1D serotonin receptor agonist.
3260	M21	A 7148	4-Aminobenzamide dihydrochloride		Biochemistry	Enzyme	Inhibitor	Trypsin	Trypsin inhibitor; competitive kallikrein inhibitor
3260	O03	265128	5-Fluoroindole-2-carboxylic acid		Glutamate		Antagonist	NMDA-Glycine	Competitive inhibitor of potentiation by glycine at the NMDA glutamate receptor
3260	O05	A 0430	1-Aminocyclopropanecarboxylic acid hydrochloride	ACPC	Glutamate		Agonist	NMDA-Glycine	NMDA glutamate receptor agonist acting at the glycine site
3260	O07	R 0875	Reserpine	Methyl reserpate; 3,4,5-Trimethoxybenzoic acid ester	Serotonin		Inhibitor	Uptake	Inhibits vesicular catecholamine and serotonin uptake.
3260	O09	PZ0001	Atorvastatin calcium salt trihydrate		Lipids in Cell Signaling	Enzyme	Inhibitor	HMG-CoA reductase	Atorvastatin calcium salt trihydrate is a specific inhibitor of HMG-CoA reductase. HMG-CoA reductase is the enzyme that catalyzes the conversion of HMG-CoA to mevalonate, an early step in cholesterol biosynthesis. Atorvastatin is used in the treatment ...
3260	O11	D-033	(+)-Butaclamol hydrochloride		Dopamine		Antagonist		Dopamine receptor antagonist
3260	O13	A 4393	Apomorphine hydrochloride hemihydrate	10,11-Dihydroxyaporphine hydrochloride hemihydrate	Dopamine		Agonist		Non-selective dopamine receptor agonist
3260	O15	A 5006	L-Arginine		Nitric Oxide		Precursor		Nitric oxide precursor
3260	O17	A 5879	2-(2-Aminoethyl)isothioureia dihydrobromide	AET; S-(2-Aminoethyl)isothiuronium dihydrobromide	Nitric Oxide	Enzyme	Inhibitor	NOS	Inhibits constitutive and inducible nitric oxide synthase (NOS)
3260	O19	A 6566	2-Hydroxysaclofen	(±)-3-Amino-2-(4-chlorophenyl)-2-hydroxy-propylsulfonic acid	GABA		Antagonist	GABA-B	GABA-B receptor antagonist
3260	O21	A 7162	3-Aminopropylphosphonic acid		GABA		Agonist	GABA-B	GABA-B receptor agonist
3260	A04	A 7250	N-Acetyl-L-Cysteine		Glutamate		Antagonist		Amino acid analog that partially improves neuronal survival following transient forebrain ischemia
3260	A06	A 7824	6-Aminohexanoic acid	6-Aminocaproic acid; EACA	Immune System		Inhibitor	Blood Clotting	Promotes rapid dissociation of plasmin, thereby inhibiting the activation of plasminogen and subsequent fibrinolysis; inhibits plasminogen binding to activated platelets
3260	A08	A 8723	Altretamine	N,N,N',N'',N''',N''''-Hexamethyl-1,3,5-triazine-2,4,6-triamine	DNA Metabolism		Inhibitor		Antineoplastic
3260	A10	A 9501	Adenosine 3',5'-cyclic monophosphate	cAMP; 3',5'-Cyclic AMP	Phosphorylation	Enzyme	Activator	PKA	PKA activator; second messenger
3260	A12	A 9834	(±)-AMT hydrochloride	(±)-2-Amino-5,6-dihydro-6-methyl-4H-1,3-thiazine hydrochloride	Nitric Oxide	Enzyme	Inhibitor	iNOS	Potent, selective and reversible inducible nitric oxide synthase inhibitor
3260	A14	A7987	5'-Amino-5'-deoxyadenosine p-toluenesulfonate salt		Adenosine		Analog		Adenosine analog.
3260	A16	A-145	1-Allyl-3,7-dimethyl-8-p-sulphophenylxanthine		Adenosine		Antagonist	A2	Weak A2 adenosine receptor antagonist; water soluble
3260	A18	A-178	Acetohexamide		Hormone		Releaser	Insulin	Stimulates insulin release
3260	A20	PZ0007	Azithromycin dihydrate	CP-62993, N-Methyl-11-aza-10-deoxo-10-dihydroerythromycin A	Immune Cell Signaling		Modulator	50S subunit	Azithromycin dihydrate is a macrolide antibiotic, azalide subclass. It binds to the 50S subunit of the 70S bacterial ribosomes and inhibits RNA-dependent protein synthesis in bacterial cells.
3260	A22	B 0753	2,3-Butanedione monoxime	Diacetyl monoxime	K+ Channel		Blocker	ATP-sensitive	Blocks ATP-sensitive K+ channels
3260	C04	A 7275	L-2-aminoadipic acid	Aad; (S)-2-Aminohexanedioic acid; L-Homoglutamic acid	Glutamate	Enzyme	Inhibitor	Glutamine synthetase	Glutamine synthetase inhibitor
3260	C06	A 7845	ATPO	(R,S)-2-Amino-3-[5-tert-butyl-3-(phosphonomethoxy)-4-isoxazolyl]propionic acid	Glutamate		Antagonist	GluR1-4	Competitive GluR1-4 (AMPA-preferring) glutamate receptor antagonist
3260	C08	M152	2-(Methylthio)adenosine 5'-diphosphate trisodium salt hydrate	2-Methylthio-ADP trisodium salt hydrate	Purinoreceptor		Agonist	P2	P2 purinoreceptor agonist.
3260	C10	A 9512	L(-)-Norepinephrine bitartrate	(-)-Arterenol bitartrate; Noradrenaline bitartrate	Adrenoceptor		Agonist	alpha, beta1	Adrenergic neurotransmitter; vasoconstrictor
3260	C12	P 9623	Paroxetine hydrochloride hemihydrate (MW = 374.83)	(3S-trans)-3-[(1,3-benzodioxol-5-yl)oxy]methyl]-4-(4-fluorophenyl)piperidine hydrochloride hemihydrate	Serotonin		Inhibitor	Reuptake	Selective serotonin reuptake inhibitor; antidepressant Sold with permission of GlaxoSmithKline. Actual molecular weight = 374.83 to account for 1/2 mole of water.

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3260	C14	PZ0014	Linezolid	PNU-100766, U-100766, N-[[[(5S)-3-[3-Fluoro-4-(4-morpholinyl)phenyl]-2-oxo-5-oxazolidinyl]methyl]acetamide	Immune Signaling	Enzyme	Inhibitor	monoamine oxidase monoamine oxidase	Linezolid is an oxazolidinone antimicrobial. Linezolid is a weak, reversible, nonselective inhibitor of monoamine oxidase. Linezolid binds to a site on the bacterial 23S ribosomal RNA of the 50S subunit and prevents the formation of a functional 70S ...
3260	C16	A-155	trans-(±)-ACPD	trans-(±)-1-Amino-1,3-cyclopentanedicarboxylic acid	Glutamate		Agonist	Metabotropic	Metabotropic glutamate receptor agonist
3260	C18	S 3316	SKF-89145 hydrobromide	4-(3,4-Dihydroxyphenyl)-6-methyl-4,5,6,7-tetrahydro-thieno[2,3-c]pyridine hydrobromide	Dopamine		Agonist	D1	D1 dopamine receptor agonist
3260	C20	PZ0003	Sildenafil citrate salt	Revatio, UK-92,480, 5-[2-Ethoxy-5-(4-methylpiperazin-1-yl)sulfonylphenyl]-1-methyl-3-propyl-4H-pyrazolo[5,4-e]pyrimidin-7-one citrate salt, 1-[[[3-(4,7-Dihydro-1-methyl-7-oxo-3-propyl-1H-pyrazolo[4,3-d]pyrimidin-5-yl)-4-ethoxyphenyl]sulfonyl]-4-methyl...	Phosphodiesterase Inhibitors	Enzyme	Inhibitor	PDE5	Sildenafil is a potent, selective inhibitor of cGMP specific phosphodiesterase type 5 (PDE5).
3260	C22	S 5192	SB 222200		Tachykinin		Antagonist	NK3	Non-peptide NK3 tachykinin receptor antagonist.
3260	E04	A 7342	N-Acetyltryptamine	3-(2-N-Acetylaminoethyl)indole	Melatonin		Agonist - Antagonist		Mixed agonist-antagonist at melatonin receptors
3260	E06	A 8003	Allopurinol	1H-Pyrazolo[3,4-d]pyrimidin-4-ol	Cell Stress	Enzyme	Inhibitor	Xanthine oxidase	Xanthine oxidase inhibitor; inhibits the final step in uric acid biosynthesis
3260	E08	A 8835	Aminoguanidine hydrochloride	Guanyldiazine hydrochloride	Nitric Oxide	Enzyme	Inhibitor	NOS	Inhibits inducible and constitutive NOS
3260	E10	A 9561	5-(N,N-hexamethylene)amiloride		Ion Pump		Inhibitor	Na+/H+ Antiporter	Na+/ H+ antiport inhibitor
3260	E12	A 9899	Antozoline hydrochloride	2-(N-Benzylanilinomethyl)-2-imidazoline hydrochloride	Imidazoline		Agonist		Imidazoline agonist; more potent than efaroxan in inducing insulin release from beta cells; H1 histamine receptor antagonist
3260	E14	T-112	Tracazolate	4-(Butylamino)-1-ethyl-6-methyl-1H-pyrazolo [3,4-b]pyridine-5-carboxylic acid ethyl ester	GABA		Modulator		Non-benzodiazepine anxiolytic which has a high differential between sedative and anxiolytic doses
3260	E16	PZ0015	Trovafoxacin mesylate	CP-99219-27, Trovafoxacin methanesulfonate, (1a,5a,6a)-7-(6-Amino-3-azabicyclo[3.1.0]hex-3-yl)-1-(2,4-difluorophenyl)-6-fluoro-1,4-dihydro-4-oxo-1,8-naphthyridine-3-carboxylic acid methanesulfonate CP-99219-27, Trovafoxacin methanesulfonate, (1a,5a...	Immunomodulators and Antibiotics	Enzyme	Inhibitor	DNA gyrase and topoisomerase IV	Trovafoxacin mesylate is a broad spectrum antibiotic. Trovafoxacin mesylate blocks the activity of DNA gyrase and topoisomerase IV, enzymes essential in the replication, transcription, and repair of bacterial DNA.
3260	E18	A-201	cis-4-Aminocrotonic acid	CACA	GABA		Agonist	GABA-C	GABA-C receptor agonist
3260	E20	C 6617	CBIQ	4-Chlorobenzof[f]isoquinolone	K+ Channel		Activator	CFTR / KCNN4	Activates cystic fibrosis transmembrane conductance regulator (CFTR) and the intermediate-conductance calcium-sensitive K+ channel.
3260	E22	B 1183	1-benzoyl-5-methoxy-2-methylindole-3-acetic acid		Multi-Drug Resistance		Inhibitor	MRP1	Putative inhibitor of multidrug resistance-associated protein 1 (MRP1)
3260	G04	A 7410	Amiloride hydrochloride		Na+ Channel		Blocker	Epithelial	Epithelial Na+ channel blocker
3260	G06	A 8404	Amitriptyline hydrochloride		Adrenoceptor		Inhibitor	Uptake	Tricyclic antidepressant
3260	G08	A 9013	BW 284c51	1,5-Bis(4-allyldimethylammoniumphenyl)pentan-3-one dibromide	Cholinergic	Enzyme	Inhibitor	Acetylcholinesterase	Selective acetylcholinesterase inhibitor
3260	G10	I4409	Fulvestrant	(7a, 17b)-7-[9-[[4,4,5,5,5-pentafluoropentyl]Sulfinyl]nonyl]estra-1,3,5-(10)-triene-3,17-diol	Hormone		SERD	Estrogen Receptor	Selective estrogen receptor downregulator (SERD). First pure antiestrogen with no agonistic activity both in vitro and in vivo.
3260	G12	A 9950	Aniracetam		Glutamate		Agonist	AMPA	Increases ion conductance through AMPA glutamate receptors; reported to display anti-amnesic activity
3260	G14	A-129	Amoxapine		Adrenoceptor		Inhibitor	Uptake	Tricyclic antidepressant; inhibits neuronal uptake of norepinephrine
3260	G16	A-162	1-Amino-1-cyclohexanecarboxylic acid hydrochloride		Neurotransmission		Substrate		Synthetic amino acid that crosses the blood-brain barrier by the Large Neutral Amino Acid carrier system
3260	G18	A-202	N6-2-(4-Aminophenyl)ethyladenosine	APNEA	Adenosine		Agonist	A3	Potent, non-selective A3 adenosine receptor agonist

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3260	G20	A-254	AIDA	1-Aminoinidan-1,5-dicarboxylic acid; UPF 523	Glutamate		Antagonist	mGluR1	Selective mGluR1 metabotropic glutamate receptor antagonist
3260	G22	B 1266	p-Benzoquinone	Quinone; p-BQ	DNA Repair		Inhibitor	G:C site	Benzene metabolite; induces mutations in DNA at G:C base pairs; induces writhing in mice; topoisomerase II inhibitor
3260	I04	A 7655	(±)-Atenolol		Adrenoceptor		Antagonist	beta1	Selective beta1 adrenoceptor antagonist; antihypertensive; antianginal; antiarrhythmic
3260	I06	A 8423	Amiodarone hydrochloride		Adrenoceptor		Agonist	alpha/beta	alpha and beta adrenoceptor agonist; inhibits binding of 1,4-dihydropyridine to L-type Ca2+ channels; coronary vasodilator
3260	I08	A 9251	Adenosine		Adenosine		Agonist		Endogenous neurotransmitter and neuromodulator
3260	I10	A 9657	(±)-p-Aminoglutethimide		Biochemistry	Enzyme	Inhibitor	P450-dependent hydroxylation	Inhibits Cytochrome P450-dependent hydroxylation reactions that are necessary for aromatization
3260	I12	H3288	HEMADO	2-(1-Hexynyl)-N6-methyladenosine	Adenosine		Agonist	A3	A3 adenosine receptor agonist
3260	I14	A-138	Aminobenzotropine	ABT	Cholinergic		Ligand	Muscarinic	High affinity muscarinic acetylcholine receptor ligand
3260	I16	A-164	Alaproclate hydrochloride	D,L-Alanine, 2-(4-chlorophenyl)-1,1-dimethylethyl ester hydrochloride	Serotonin		Inhibitor	Reuptake	Potent and selective serotonin reuptake inhibitor
3260	I18	O 5889	Opipramol dihydrochloride	4-[3-(5H-Dibenz[b,f]azepin-5-yl)propyl]-1-piperazineethanol dihydrochloride	Sigma receptor		Agonist	1, 2	sigma1, sigma2 receptor agonist; an antagonist at D2, 5HT2, and H1 receptors; atypical antidepressant, antipsychotic, and axiolytic.
3260	I20	A-255	A-77636 hydrochloride		Dopamine		Agonist	D1	Potent, orally active D1 dopamine receptor agonist
3260	I22	B 1381	8-Bromo-cGMP sodium	8-Bromoguanosine-3',5'-cyclophosphate sodium	Cyclic Nucleotides	Enzyme	Activator		Membrane-permeable analog of cGMP
3260	K04	C1240	Chlormethiazole hydrochloride	4-Methyl-5-(beta-chloroethyl)thiazole hydrochloride	GABA		Agonist	GABA(A)	GABA(A) agonist; glycine receptor modulator
3260	K06	A 8456	4-(2-Aminoethyl)benzenesulfonyl fluoride hydrochloride	AEBSF	Biochemistry	Enzyme	Inhibitor	Serine Protease	Irreversible serine protease inhibitor
3260	K08	A 9256	L-Aspartic acid		Glutamate		Agonist		Endogenous excitatory amino acid neurotransmitter
3260	K10	A 9699	(±)-HA-966	(±)-3-Amino-1-hydroxy-2-pyrrolidone	Glutamate		Antagonist	NMDA-glycine	NMDA glutamate receptor antagonist which appears to act by competing with glycine at the glycine modulation site of the NMDA glutamate receptor
3260	K12	A-013	8-(p-Sulphophenyl)theophylline		Adenosine		Antagonist	A1 > A2	Adenosine receptor antagonist with selectivity for A1 over A2
3260	K14	A-140	Arecaidine propargyl ester hydrobromide	APE	Cholinergic		Agonist	M2	Potent muscarinic acetylcholine receptor agonist exhibiting a slight selectivity for M2 receptors
3260	K16	P 9872	Psora-4	5-(4-Phenylbutoxy)psoralen	K+ Channel		Inhibitor	Kv1.3	Potent Kv1.3 potassium channel inhibitor.
3260	K18	A-230	gamma-Acetylinic GABA	4-Amino-5-hexynoic acid	GABA	Enzyme	Inhibitor	GABA transaminase	GABA transaminase (GABA-T) inhibitor
3260	K20	A-263	ATPA	(RS)-2-Amino-3-(3-hydroxy-5-tert-butylisoxazol-4-yl)propanoic acid	Glutamate		Agonist	Kainate	Selective kainate glutamate receptor agonist
3260	K22	T6951	TBBz	4,5,6,7-Tetrabromobenzimidazole	Phosphorylation	Enzyme	Inhibitor	CK2	Cell-permeable casein kinase 2 (CK2) inhibitor.
3260	M04	A 7762	L-allylglycine	L-2-Amino-4-pentenoic acid	Biochemistry	Enzyme	Inhibitor	Glutamic acid decarboxylase	Glutamic acid decarboxylase inhibitor
3260	M06	A 8598	Ancitabine hydrochloride	Cyclocytidine hydrochloride; Cyclo-C	DNA Metabolism		Inhibitor		Antineoplastic
3260	M08	A 9335	Astaxanthin	3,3'-Dihydroxy-beta,beta-carotene-4,4'-dione	Cell Stress		Inhibitor	Antioxidant	Potent antioxidant
3260	M10	L 6668	Lercanidipine hydrochloride hemihydrate		Calcium Channel		Antagonist	Cav1.2b	L-type (Cav1.2b) vascular calcium channel antagonist
3260	M12	A-022	1,3-Dipropyl-8-p-sulphophenylxanthine		Adenosine		Antagonist	A1 > A2	Adenosine receptor antagonist with slight selectivity for A1 over A2
3260	M14	I0404	Indirubin-3'-oxime		Phosphorylation	Enzyme	Inhibitor	CDK	Cyclin-dependent kinase inhibitor; ATP competitive; antiproliferative
3260	M16	S 0568	SB 200646 hydrochloride	N-(1-Methyl-1H-indol-5-yl)-N'-3-pyridinyl-urea hydrochloride	Serotonin		Antagonist	5-HT2C/2B	5-HT 2C/2B serotonin receptor antagonist.
3260	M18	A-236	AB-MECA	N6-(4-Aminobenzyl)-9-[5-(methylcarbonyl)-beta-D-ribofuranosyl]adenine	Adenosine		Agonist	A3	High affinity A3 adenosine receptor agonist
3260	M20	A-265	ARL 67156 trisodium salt	FPL 67156	P2 Receptor	Enzyme	Inhibitor	ecto-ATPase	ecto-ATPase inhibitor; prevents metabolism of P2 receptor agonists
3260	M22	PZ0005	Voriconazole	UK-109496, 2R,3S-2-(2,4-Difluorophenyl)-3-(5-fluoropyrimidin-4-yl)-1-(1H-1,2,4-triazol-1-yl)butan-2-ol	Immunomodulators	Enzyme	Inhibitor	CYP450-dependent 14-a sterol demethylase	Voriconazole inhibits ergosterol synthesis by inhibiting CYP450-dependent 14-a sterol demethylase resulting in a depletion of ergosterol in fungal cell membranes

ICCB-L Plate	ICCB-L Well	Vendor ID	Compound Name	Sec Name	Class	Enzyme	Action	Selectivity	Description
3260	O04	A 6476	ABT-418 hydrochloride	3-Methyl-5-[(2S)-1-methyl-2-pyrrolidinyl]isoxazole hydrochloride	Cholinergic		Agonist	nicotinic	Neuronal nicotinic acetylcholine receptor agonist with cognition enhancing and anxiolytic activities
3260	O06	A 8676	Alprenolol hydrochloride		Adrenoceptor		Antagonist	beta	beta Adrenoceptor antagonist
3260	O08	A 9345	N-(4-Amino-2-chlorophenyl)phthalimide		Anticonvulsant				Potent anticonvulsant
3260	O10	A 9809	Amsacrine hydrochloride	m-AMSA hydrochloride	DNA Repair	Enzyme	Inhibitor	TopoII	DNA topoisomerase II inhibitor
3260	O12	A-023	2-Methylthioadenosine triphosphate tetrasodium	2-Methylthio ATP tetrasodium	P2 Receptor		Agonist	P2Y	P2Y receptor agonist
3260	O14	A-143	S(-)-Atenolol		Adrenoceptor		Antagonist	beta1	beta1 adrenoceptor antagonist
3260	O16	A8981	AS-252424	5-[[5-(4-Fluoro-2-hydroxyphenyl)-2-furanyl]methylene]-2,4-thiazolidinedione	Phosphorylation	Enzyme	Inhibitor	PI3Kgamma	A potent and selective phosphoinositide 3-kinase PI3Kgamma inhibitor.
3260	O18	A-242	Alloxazine	Isoalloxazine	Adenosine		Antagonist	A2b	Selective A2b adenosine receptor antagonist
3260	O20	B 0385	Beclomethasone	9alpha-Chloro-16beta-methyl-1,4-pregnadiene-11beta,17alpha,21-triol-3,20-dione	Hormone			Glucocorticoid	Anti-inflammatory glucocorticoid
3260	O22	B 2009	Benzamide	Benzoylamide	Apoptosis	Enzyme	Inhibitor	PARS	Inhibitor of Poly(ADP-ribose) synthetase which is activated by nitric oxide; neuroprotective agent
3260	B03	B 2050	3-Bromo-7-nitroindazole		Nitric Oxide	Enzyme	Inhibitor	NOS	Nitric oxide synthase (NOS) inhibitor
3260	B05	B 3023	Bumetanide	3-(Aminosulfonyl)-5-(butylamino)-4-phenoxybenzoic acid	Ion Pump		Inhibitor	Na+-K+-2Cl- cotransporter	Potent inhibitor of the Na+-K+-2Cl- cotransporter; inhibits anthracene-9-carboxylic acid, a blocker of chloride channels
3260	B07	B 5399	(±)-Baclofen	Lioresal	GABA		Agonist	GABA-B	GABA-B receptor agonist; antispastic agent; muscle relaxant
3260	B09	B 7651	Brefeldin A from Penicillium brefeldianum	BFA; Ascotoxin, Cyanein	Cytoskeleton and ECM		Inhibitor	Golgi apparatus	Fungal metabolite that disrupts the structure and function of the Golgi apparatus
3260	B11	B 9308	BP 897	N-[4-(4-(2-methoxyphenyl)piperazinyl)butyl]-2-naphthamide	Dopamine		Agonist	D3	Partially selective D3 dopamine receptor agonist
3260	B13	B-102	Bupropion hydrochloride	(±)-1-(3-Chlorophenyl)-2-[(1,1-dimethylethyl)amino]-1-propanone hydrochloride	Dopamine		Blocker	Reuptake	Selective dopamine reuptake inhibitor; antidepressant
3260	B15	B-154	BU224 hydrochloride	2-(4,5-Dihydroimidazol-2-yl)-quinoline hydrochloride	Imidazoline		Antagonist	I2	I2 Imidazoline receptor antagonist
3260	B17	C 0330	Ciprofibrate	2-[p-(2,2-Dichlorocyclopropyl)phenoxy]-2-methylpropanoic acid	Transcription		Ligand	PPAR-alpha	Peroxisome proliferator; specific ligand for the nuclear peroxisome proliferator-activated receptor alpha (PPARalpha)
3260	B19	C 0862	CGP-7930	3-(3',5'-Di-tert-butyl-4'-hydroxy)phenyl-2,2-dimethylpropanol	GABA		Modulator	GABA-B	Positive allosteric modulator of GABA-B receptors
3260	B21	C 1671	Chlorprothixene hydrochloride	2-Chloro-9-(3-dimethylaminopropylidene)thioxanthene hydrochloride	Dopamine		Antagonist	D2	D2 dopamine receptor antagonist; blocks a subset of GABA-A receptors in rat cortex that is also blocked by clozapine
3260	D03	B 2134	(+)-Bromocriptine methanesulfonate		Dopamine		Agonist	D2	D2 dopamine receptor agonist; inhibits prolactin secretion
3260	D05	B 3501	Betaine hydrochloride		Biochemistry	Enzyme	Metabolite		Product in choline-betaine osmoregulatory pathway
3260	D07	S 7067	SB 202190	4-[4-(4-Fluorophenyl)-5-(4-pyridinyl)-1H-imidazol-2-yl]phenol	Phosphorylation	Enzyme	Inhibitor	p38 MAPK	Highly selective, potent and cell permeable p38 MAP kinase inhibitor.
3260	D09	B 7777	Budesonide	16,17-Butylidenebis(oxy)-11,21-dihydroxypregna-1,4-diene-3,20-dione	Hormone			Cortisol	Anti-inflammatory glucocorticoid
3260	D11	G6548	G15	SID48409616; CID3136844; 4-(6-Bromo-benzo[1,3]dioxol-5-yl)-3a,4,5,9b-tetrahydro-3H-cyclopenta[c]quinoline	Bioactive Small Molecules		Antagonist	GPR30	Selective GPR30 antagonist with little to no binding/activity towards classical estrogen receptors ER?/ER?
3260	D13	B-103	(-)-Bicuculline methbromide, 1(S), 9(R)		GABA		Antagonist	GABA-A	GABA-A receptor antagonist
3260	D15	B-161	B-HT 933 dihydrochloride	Azepexole dihydrochloride	Adrenoceptor		Agonist	alpha2	Selective alpha2 adrenoceptor agonist
3260	D17	C 0331	6-Chloromelatonin	N-Acetyl-6-chloro-5-methoxytryptamine	Melatonin		Agonist		Melatonin receptor agonist
3260	D19	C 0987	CGP-13501	3-(3',5'-Di-tert-butyl-4'-hydroxy)phenyl-2,2-dimethylpropanal	GABA		Modulator	GABA-B	Positive allosteric modulator of GABA-B receptors
3260	D21	C 1754	Choline bromide	Choline-methyl-13C bromide	Cholinergic	Enzyme	Substrate	Choline acetyltransferase	Choline acetyltransferase substrate
3260	F03	B 2292	O6-benzylguanine		DNA Repair	Enzyme	Inhibitor	O6-alkylguanine-DNA alkyltransferase	Irreversible inhibitor of the mammalian DNA repair protein, O6-alkylguanine-DNA alkyltransferase
3260	F05	B 3650	Betaine aldehyde chloride	(Formylmethyl)trimethylammonium chloride	Cholinergic	Enzyme	Metabolite	Choline dehydrogenase	Intermediate in choline-betaine osmoregulatory pathway; product of choline dehydrogenation
3260	F07	B 5681	Bay 11-7085	(E)-3-(4-t-Butylphenylsulfonyl)-2-propenenitrile	Cell Cycle		Inhibitor	IkB-alpha	Inhibits cytokine induced IκB (Inhibitor of NFκB) phosphorylation

ICCB-L Plate	ICCB-L Well	Vendor ID	Compound Name	Sec Name	Class	Enzyme	Action	Selectivity	Description
3260	F09	B 7880	8-Bromo-cAMP sodium	8-Bromoadenosine-3',5'-cyclophosphate sodium	Cyclic Nucleotides	Enzyme	Activator		Membrane-permeable analog of cAMP
3260	F11	S7701	Sorbinil	(+)-(4S)-6-Fluorospiro[chroman-4,4'-imidazolidine]-2',5'-dione, (4S)-6-Fluoro-2,3-dihydro-spiro[4H-1-benzopyran-4,4'-imidazolidine]-2',5'-dione, CP 45634	Antioxidants and Cytoprotectants	Enzyme	Inhibitor	AR	Sorbinil is an inhibitor of Aldose Reductase (AR)
3260	F13	B-112	(±)-Bay K 8644	1,4-Dihydro-2,6-dimethyl-5-nitro-4-[2-(trifluoromethyl)-phenyl]-3-pyridine carboxylic acid methyl ester	Ca2+ Channel		Agonist	L-type	L-type Ca2+ channel agonist
3260	F15	B-168	(±)-Butaclamol hydrochloride	AY 23028	Dopamine		Antagonist	D2>D1	Dopamine receptor antagonist; selective for D2 over D1
3260	F17	C 0400	Carmustine	BCNU; 1,3-Bis(2-chloroethyl)-1-nitrosourea	DNA		Intercalator		DNA alkylating agent; causes interstrand crosslinks
3260	F19	PZ0129	CP-380736	6,7-Bis(2-methoxyethoxy)-3,4-dihydroquinazolin-4-one, 6,7-Bis(2-methoxyethoxy)-4(3H)-quinazolinone, PF-00520893	Tyrosine Kinase	Enzyme	Inhibitor	EGFR	CP-380736 is an inhibitor of the epidermal growth factor receptor (EGFR)
3260	F21	B 6311	BTO-1	5-Cyano-7-nitro-2-benzothiazolecarboxamide-3-oxide	Phosphorylation	Enzyme	Inhibitor	Plk	Polo-like kinase (Plk) inhibitor.
3260	H03	B 2377	N-Bromoacetamide	NBA	Na+ Channel		Modulator		Removes fast inactivation of Na+ currents and transient K+ currents; chemical modifier
3260	H05	B 4555	Benazoline oxalate	4,5-Dihydro-2-(2-naphthalenyl)-1H-imidazole oxalate	Imidazoline		Agonist	I2	I2 Imidazoline receptor agonist
3260	H07	B 5683	Betaxolol hydrochloride		Adrenoceptor		Antagonist	beta1	Selective beta1 adrenoceptor antagonist
3260	H09	B 8262	Benztropine mesylate		Cholinergic		Antagonist	Muscarinic	Muscarinic acetylcholine receptor antagonist
3260	H11	G6423	Gemcitabine hydrochloride	2'-Deoxy-2',2'-difluorocytidine; dFdC, Gemzar (Lilly), LY-188011, dFdC, dFdCyd	Apoptosis and Cell Cycle				Gemcitabine is a widely used antitumor agents in both clinics and research labs. It is an antineoplastic agent and antimetabolite
3260	H13	B-121	Bromoacetylcholine bromide	2-(2-Bromoacetyloxy)-N,N,N-trimethylethanaminium bromide	Cholinergic		Ligand		Affinity alkylating agent of nicotinic acetylcholine receptors
3260	H15	B-169	BRL 37344 sodium	(±)-(R*,R*)-[4-[2-[[2-(3-Chlorophenyl)-2-hydroxyethyl] amino]propyl]phenoxy]-acetic acid sodium	Adrenoceptor		Agonist	beta3	Selective beta3 adrenoceptor agonist
3260	H17	C 0424	PK 11195	1-(2-Chlorophenyl)-N-methyl-N-(1-methylpropyl)	GABA		Antagonist	Benzodiazepine	Peripheral benzodiazepine receptor antagonist
3260	H19	C 1159	L-Cycloserine	(S)-4-Amino-3-isoxazolidone	Sphingolipid	Enzyme	Inhibitor	Ketosphinganine synthetase	Blocks sphingosine biosynthesis by inhibition of ketosphinganine synthetase
3260	H21	C 2235	CB 1954	5-(1-Aziridinyl)-2,4-dinitrobenzamide	DNA		Intercalator		Prodrug activated by NAD(P)H quinone oxidoreductase-2
3260	J03	B 2390	(±)-Brompheniramine maleate		Histamine		Antagonist	H1	H1 Histamine receptor antagonist
3260	J05	B 4558	BWB70C	N-[3-[3,4-(Fluorophenoxy)phenyl]-1-methyl-2-propenyl]-N-hydroxyurea	Leukotriene	Enzyme	Inhibitor	5-lipoxygenase	Selective inhibitor of 5-lipoxygenase
3260	J07	B 6506	Benzamidine hydrochloride	Amidinobenzene hydrochloride	Biochemistry	Enzyme	Inhibitor	Peptidase	Peptidase inhibitor
3260	J09	B 8279	Ro 20-1724	4-[(3-Butoxy-4-methoxyphenyl)methyl]-2-imidazolidione	Cyclic Nucleotides	Enzyme	Inhibitor	cAMP phosphodiesterase	Potent and selective cAMP phosphodiesterase inhibitor
3260	J11	B-012	6-Fluoronorepinephrine hydrochloride	6-FNE hydrochloride	Adrenoceptor		Agonist	alpha	alpha Adrenoceptor agonist
3260	J13	B-134	BMY 7378 dihydrochloride	8-[2-[4-(2-Methoxyphenyl)-1-piperazinyl]ethyl]-azaspiro[4.5]decane-7,9-dione dihydrochloride	Serotonin		Agonist	5-HT1A	Partial 5-HT1A serotonin receptor agonist; alpha1D adrenoceptor antagonist
3260	J15	B-173	BRL 54443 maleate	3-(1-Methylpiperidin-4-yl)-1H-indol-5-ol maleate	Serotonin		Agonist	5-HT1E/1F	Potent 5-HT1E/1F serotonin receptor agonist
3260	J17	C 0625	Caffeic Acid	3,4-Dihydroxycinnamic acid	Cell Stress		Inhibitor	Antioxidant	Antioxidant; inhibits the synthesis of leukotrienes that are involved in immunoregulation and inflammation
3260	J19	C 1172	ML-9		Phosphorylation	Enzyme	Inhibitor	MLCK	Myosin light chain kinase (MLCK) inhibitor
3260	J21	P5749	S-(+)-PD 123177 trifluoroacetate salt hydrate	(S)-1-[(4-Amino-3-methylphenyl)methyl]-5-(diphenylacetyl)-4,5,6,7-tetrahydro-1H-imidazo[4,5-c]pyridine-6-carboxylic acid trifluoroacetate salt hydrate	Neurotransmission		Antagonist	AT2	Selective AT2 angiotensin receptor antagonist
3260	L03	B 2417	Benzamil hydrochloride	N-(Benzylamido)-3,5-diamino-6-chloropyrazinocarboxamide hydrochloride	Ion Pump		Blocker	Na+/H+, Na+/Ca2+ Pump	Selective and potent blocker of Na+/H+ and Na+/Ca2+ channels

ICCB-L Plate	ICCB-L Well	Vendor ID	Compound Name	Sec Name	Class	Enzyme	Action	Selectivity	Description
3260	L05	B 5002	5-Bromo-2'-deoxyuridine	Br-dU; 5-Bromo-1-(2-deoxy-beta-D-ribofuranosyl)uracil	DNA Metabolism		Inhibitor		Thymidine analog; incorporated into DNA during S-phase of cell cycle
3260	L07	B 7005	Betamethasone	9alpha-Fluoro-16beta-methylprednisolone	Hormone			Glucocorticoid	SAID (steroidal anti-inflammatory drug); glucocorticoid
3260	L09	B 8385	Bestatin hydrochloride	N-[(2S,3R)-3-Amino-2-hydroxy-4-phenylbutyl]-L-leucine hydrochloride	Biochemistry	Enzyme	Inhibitor	Aminopeptidase	Aminopeptidase inhibitor
3260	L11	B-015	Bromoacetyl aprenolol menthane		Adrenoceptor		Antagonist	beta	Alkylating beta adrenoceptor antagonist
3260	L13	B-135	R(+)-6-Bromo-APB hydrobromide	R(+)-6-Bromo-7,8-dihydroxy-3-allyl-1-phenyl-2,3,4,5-tetrahydro-1H-3-benzazepine hydrobromide	Dopamine		Agonist	D1/D5	D1 Dopamine receptor agonist
3260	L15	B 5311	Biperiden hydrochloride	1-(5-Bicyclo[2.2.1]hept-2-enyl)-1-phenyl-3-(1-piperidinyl)propan-1-ol hydrochloride	Cholinergic		Antagonist	muscarinic	Non-selective muscarinic acetylcholine receptor antagonist; antiparkinsonian
3260	L17	C 0737	Cilostazol	OPC 13013; OPC 21; Pletaal	Cyclic Nucleotides	Enzyme	Inhibitor	PDE III	Specific type III phosphodiesterase (PDE) inhibitor
3260	L19	C 1251	(+)-Catechin Hydrate	(+)-Cyanidol-3	Cell Stress		Inhibitor	Antioxidant	Antioxidant; free radical scavenger
3260	L21	C 2505	Corticosterone	Kendall's Compound B; 4-Pregnene-11beta,21-diol-3,20-dione; Reichstein's Substance H	Hormone			Glucocorticoid	Glucocorticoid secreted by the adrenal cortex; activates both mineralocorticoid and glucocorticoid receptors
3260	N03	B 2515	L-Buthionine-sulfoximine		Multi-Drug Resistance	Enzyme	Inhibitor		Glutathione synthesis inhibitor
3260	N05	B 5016	Bepidil hydrochloride		Ca2+ Channel		Blocker		Non-selective Ca2+ channel blocker which stimulates the binding of 1,4-dihydropyridine-based drugs to Ca2+ channels; anti-anginal
3260	N07	B 7148	Buspirone hydrochloride		Serotonin		Agonist	5-HT1A	5-HT1A Serotonin receptor agonist; non-benzodiazepine anxiolytic
3260	N09	A 0232	Alfuzosin hydrochloride	Uroxatral hydrochloride, N-(3-((4-Amino-6,7-dimethoxy-2-quinazolinyl)methylamino)propyl)tetrahydro-2-furancarboxamide hydrochloride	Adrenoceptor		Blocker		alpha-adrenergic blocker used to treat benign prostatic hyperplasia (BPH)
3260	N11	B-016	Benoxathian hydrochloride	2-[[[2-(2,6-Dimethoxyphenoxy)ethyl]amino]methyl]-1,4-benzoxanthian hydrochloride	Adrenoceptor		Antagonist	alpha1	Selective alpha1 adrenoceptor antagonist
3260	N13	B-138	BTCP hydrochloride		Dopamine		Blocker	Reuptake	Selective blocker of dopamine reuptake
3260	N15	R1283	Rhodblock 6	N-1H-Indazol-5-yl-cyclobutanecarboxamide	Kinase/Phosphatase	Enzyme	Inhibitor	Rho	Rhodblock 6 is an inhibitor of the Rho Kinase pathway.
3260	N17	C 0750	Caffeine	1,3,7-Trimethylxanthine	Adenosine	Enzyme	Inhibitor	Phosphodiesterase	Phosphodiesterase inhibitor; central stimulant
3260	N19	C 1290	Chlorpropamide		Hormone		Releaser	Insulin	Stimulates insulin release
3260	N21	C 2538	Carboplatin	cis-Diammine(1,1-cyclobutanedicarboxylato) platinum	DNA		Intercalator		Antineoplastic
3260	P03	B 2640	DL-Buthionine-[S,R]-sulfoximine		Multi-Drug Resistance	Enzyme	Inhibitor		Glutathione synthesis inhibitor
3260	P05	B 5275	(+)-Brompheniramine maleate	Dexbrompheniramine maleate	Histamine		Antagonist	H1	H1 Histamine receptor antagonist
3260	P07	B 7283	Benserazide hydrochloride	DL-Serine, 2-[(2,3,4-trihydroxyphenyl)methyl]hydrazide hydrochloride	Biochemistry	Enzyme	Inhibitor	Decarboxylase	Peripheral decarboxylase inhibitor
3260	P09	B 0936	BRL 50481	5-Nitro-2,N,N-trimethylbenzenesulfonamide	Phosphodiesterase	Enzyme	Inhibitor	PDE7	Phosphodiesterase 7 (PDE7) inhibitor
3260	P11	C7874	Piperaquine tetraphosphate tetrahydrate	7-Chloro-4-[4-[3-[4-(7-chloroquinolin-4-yl)piperazin-1-yl]propyl]piperazin-1-yl]quinoline	Immunomodulators and Antibiotics				Piperaquine tetraphosphate tetrahydrate is an antimalarial agent highly active against chloroquine-resistant Plasmodium falciparum and Plasmodium vivax.
3260	P13	D 3943	DAPH	4,5-Dianilinothalimide; CGP 52411	Phosphorylation	Enzyme	Inhibitor	EGFR	Protein tyrosine kinase inhibitor, specific for EGFR; Also inhibits amyloid beta fibril formation.
3260	P15	S3322	Supercinnamaldehyde	1,3-Dihydro-1-methyl-3-(2-oxopropylidene)-2H-indole-2-one	Ion Channels		Activator	TRPA1	Transient receptor potential ankyrin 1 (TRPA1) receptor activator; covalently modifies cysteines to activate channel.
3260	P17	C 0768	Cyclophosphamide monohydrate	2-[Bis(2-chloroethyl)amino]tetrahydro-2H-1,3,2-oxazaphosphorine 2-oxide	DNA		Intercalator		Cancer chemotherapeutic; cross-links DNA
3260	P19	C 1610	1-(4-Chlorobenzyl)-5-methoxy-2-methylindole-3-acetic acid		Multi-Drug Resistance		Inhibitor	MRP1	NSAID; putative inhibitor of multidrug resistance-associated protein 1 (MRP1)

ICCB-L Plate	ICCB-L Well	Vendor ID	Compound Name	Sec Name	Class	Enzyme	Action	Selectivity	Description
3260	P21	C 2755	Cortisone	Kendall's Compound E; 4-Pregnene-17 α ,21-diol-3,11,20-trione; Reichstein's Substance Fa	Hormone			Corticosteroid	Anti-inflammatory; corticosterone analog
3260	B04	C 2932	Chelerythrine chloride	1,2-Dimethoxy-N-methyl(1,3)benzodioxolo(5,6-c)phenanthridinium chloride	Phosphorylation	Enzyme	Inhibitor	PKC	PKC inhibitor; affects translocation of PKC from cytosol to plasma membrane
3260	B06	C 3662	Cyclosporin A	Antibiotic S 7481F1	Phosphorylation	Enzyme	Inhibitor	Calcineurin phosphatase	Calcineurin phosphatase inhibitor; immunosuppressant
3260	B08	C 4382	Carbachol	Carbamylcholine chloride	Cholinergic		Agonist		Acetylcholine receptor agonist
3260	B10	C 4895	Cephalexin hydrate		Antibiotic			Cell wall synthesis	Semi-synthetic cephalosporin antibiotic; interferes with cell wall synthesis
3260	B12	R 7772	Roscovitine	(R)-2-(1-Ethyl-2-hydroxyethylamino)-6-benzylamino-9-isopropylpurine	Phosphorylation	Enzyme	Inhibitor	CDK	Potent, selective inhibitor of cyclin-dependent kinases (CDKs)
3260	B14	C 6022	Cyproheptadine hydrochloride		Serotonin		Antagonist	5-HT2	5-HT2 serotonin receptor antagonist
3260	B16	M5793	3-Morpholinolinosydnonimine hydrochloride	3-(4-Morpholinyl)sydnone imine hydrochloride	Nitric Oxide		Donor		Liberates nitric oxide (NO) spontaneously when in solution, activating guanylyl cyclase and causing an increase in cyclic-GMP. This product is a vasodilator and inhibits platelet aggregation.
3260	B18	C 7632	Cantharidin	Cantharidine	Phosphorylation	Enzyme	Inhibitor	PP2A	Protein phosphatase 2A inhibitor
3260	B20	C 8138	Chlorpromazine hydrochloride		Dopamine		Antagonist		Dopamine receptor antagonist; anti-emetic; antipsychotic
3260	B22	C 8773	Centrophoxine hydrochloride	Meclofenoxate hydrochloride	Nootropic				Nootropic; cholinergic drug
3260	D04	C 3010	1-(2-Chlorophenyl)-1-(4-chlorophenyl)-2,2-dichloroethane	Mitotane	Hormone		Inhibitor	Corticosteroid	Antiadrenal agent; reduces corticosteroid synthesis by adrenal cortex
3260	D06	C 3909	D-Cycloserine	R(+)-4-Amino-3-isoxazolidinone	Glutamate		Agonist	NMDA-Glycine	Excitatory amino acid; partial agonist at the glycine modulatory site of the NMDA glutamate receptor
3260	D08	C 4397	Chlorzoxazone	5-Chloro-2(3H)-benzoxazolone	Nitric Oxide	Enzyme	Inhibitor	iNOS	Inducible nitric oxide synthetase inhibitor; skeletal muscle relaxant
3260	D10	C 4911	Chlorothiazide		Biochemistry	Enzyme	Inhibitor	Carbonic anhydrase	Carbonic anhydrase inhibitor; diuretic; antihypertensive
3260	D12	S 0693	SB 204741	N-(1-Methyl-1H-indo-5-yl)-N'-(3-methyl-5-isothiazolyl)urea	Serotonin		Antagonist	5-HT2B	5-HT2B serotonin receptor antagonist.
3260	D14	G5794	GR 79236X	N-[(1S, trans)-2-Hydroxycyclopentyl]adenosine	Adenosine		Agonist	A1	A1 adenosine receptor agonist.
3260	D16	C 6895	Cefaclor		Antibiotic			Cell wall synthesis	Semi-synthetic cephalosporin antibiotic; interferes with cell wall synthesis
3260	D18	C 7861	Citalopram hydrobromide	1-[3-(Dimethylamino)propyl]-1-(4-fluorophenyl)-1,3-dihydro-5-isobenzofurancarboxonitrile hydrobromide	Serotonin		Inhibitor	Reuptake	Selective serotonin reuptake inhibitor
3260	D20	C 8145	Cefsulodin sodium salt hydrate	Sulcephalosporin	Antibiotic			Cell wall synthesis	Third generation cephalosporin antibiotic; interferes with cell wall synthesis
3260	D22	C 8903	Clemastine fumarate		Histamine		Antagonist	H1	H1 Histamine receptor antagonist
3260	F04	C 3025	(\pm)-Chlorpheniramine maleate		Histamine		Antagonist	H1	H1 Histamine receptor antagonist
3260	F06	C 3912	8-(4-Chlorophenylthio)-cAMP sodium		Cyclic Nucleotides	Enzyme	Activator		Membrane-permeable analog of cAMP
3260	F08	C 4418	L-Cysteinesulfinic Acid		Glutamate		Ligand		Putative excitatory amino acid neurotransmitter
3260	F10	C 4915	(+)-Chlorpheniramine maleate	(gammaS)-gamma-(4-Chlorophenyl)-N,N-dimethyl-2-pyridinepropanamine maleate	Histamine		Antagonist	H1	H1 Histamine receptor antagonist; active isomer
3260	F12	C 5793	Ceftriaxone sodium	Ro-13-9904/001	Antibiotic			Cell wall synthesis	Third generation cephalosporin antibiotic; interferes with cell wall synthesis
3260	F14	C 6048	Cefmetazole sodium	CS-1170; SKF-83088	Antibiotic			Cell wall synthesis	Semi-synthetic antibiotic derived from cephamycin C; interferes with cell wall synthesis
3260	F16	C 7005	DL-Cycloserine	4-amino-3-isoxazolidinone	Sphingolipid	Enzyme	Inhibitor	Ketosphinganine synthase, Alanine aminotransferase	Alanine aminotransferase inhibitor; blocks sphingosine biosynthesis by inhibition of ketosphinganine synthetase
3260	F18	C 7897	Clonidine hydrochloride		Adrenoceptor		Agonist	alpha2	alpha2 Adrenoceptor agonist; antihypertensive
3260	F20	C 8221	Caffeic acid phenethyl ester	CAPE	Cell Cycle		Inhibitor	NFKB	NFKB inhibitor
3260	F22	L5420	Lumefantrine	(9Z)-2,7-Dichloro-9-[(4-chlorophenyl)methylene]-7-[[dibutylamino)methyl]-9H-fluorene-4-methanol, Benflumetol, CPG-56695	Immunomodulators and Antibiotics				Lumefantrine is an antimalarial for the treatment of multi-drug resistant strains of falciparum malaria.
3260	H04	C 3130	Cortisone 21-acetate	21-Acetoxy-4-pregnen-17 α -ol-3,11,20-trione	Hormone			Cortisol	Anti-inflammatory cortisol
3260	H06	C 3930	Calmidazolium chloride	R 24571 chloride	Intracellular Calcium	Enzyme	Inhibitor	Ca2+ATPase	Potent inhibitor of calmodulin activation of phosphodiesterase; strongly inhibits calmodulin-dependent Ca2+-ATPase

ICCB-L Plate	ICCB-L Well	Vendor ID	Compound Name	Sec Name	Class	Enzyme	Action	Selectivity	Description
3260	H08	C 4479	9-cyclopentyladenine	9-CP-Ade	Cyclic Nucleotides	Enzyme	Inhibitor	Adenylate cyclase	Cell-permeable, non-competitive adenylyl cyclase inhibitor; targets the P-site domain
3260	H10	C 5020	Cefazolin sodium	Sodium CEZ; SKF-41558	Antibiotic			Cell wall synthesis	Semi-synthetic antibiotic; interferes with cell wall synthesis
3260	H12	L4545	L-798106	(2E)-N-[[5-bromo-2-methoxyphenyl)sulfonyl]-3-[2-(2-naphthalenylmethyl)phenyl]-2-propenamide	Lipids		Antagonist	EP3	L-798106 was among the first EP3-selective antagonists
3260	H14	C 6305	Clozapine	8-Chloro-11-(4-methyl)-1-piperaziny]-5H-dibenzo[b,e][1,4]diazepine	Dopamine		Antagonist	D4 > D2,D3	Atypical neuroleptic agent which display greater affinity for the D4 dopamine receptors over D2 or D3
3260	H16	C 7041	McN-A-343	(4-Hydroxy-2-butanyl)-1-trimethylammonium-m-chlorocarbamate chloride	Cholinergic		Agonist	M1	M1 muscarinic acetylcholine receptor agonist.
3260	H18	C 7912	Cefotaxime sodium	Cefotaxim sodium	Antibiotic			Cell wall synthesis	Broad spectrum third generation cephalosporin antibiotic; interferes with cell wall synthesis
3260	H20	I 0160	Imipenem monohydrate	Primaxin monohydrate, Tienam monohydrate, (5R,6S)-6-[[1(R)-1-Hydroxyethyl]-3-[[2-[(iminomethyl)amino]ethyl]thio]-7-oxo-1-azabicyclo[3.2.0]hept-2-ene-2-carboxylic acid monohydrate	Antibiotic				broad spectrum beta-lactam antibiotic
3260	H22	C 9510	Pyrocatechol	1,2-Benzenediol; Catechol	Cell Cycle		Inhibitor		Carcinogen; causes DNA strand breakage
3260	J04	C 3270	Cephalosporin C zinc salt		Antibiotic			Cell wall synthesis	Antibiotic; interferes with cell wall synthesis
3260	J06	G 5918	GR 113808	1-Methyl-1H-indole-3-carboxylic acid, [1-[2-[(methylsulfonyl)amino]ethyl]-4-piperidinyl]methyl ester	Serotonin		Antagonist	5-HT4	5-HT4 serotonin receptor antagonist.
3260	J08	C 4520	Cephalothin sodium		Antibiotic			Cell wall synthesis	Semi-synthetic cephalosporin antibiotic; interferes with cell wall synthesis
3260	J10	C 5040	Clemizole hydrochloride	1-p-Chlorobenzyl-2-(1-pyrrolidinyl)methylbenzimidazole hydrochloride	Histamine		Antagonist	H1	H1 Histamine receptor antagonist
3260	J12	C 5923	(-)-Cotinine	S(-)-1-Methyl-5-(3-pyridyl)-2-pyrrolidone	Cholinergic		Metabolite	Nicotinic	Major metabolite of nicotine in humans
3260	J14	C 6506	(±)-p-Chlorophenylalanine	p-CPA	Neurotransmission	Enzyme	Inhibitor	Tryptophan hydroxylase	Depletes brain serotonin by irreversible inhibition of tryptophan hydroxylase.
3260	J16	C 7230	N-(2-[4-(4-Chlorophenyl)piperazin-1-yl]ethyl)-3-methoxybenzamide		Dopamine		Agonist	D4	Selective D4 dopamine receptor agonist
3260	J18	C 7971	Cilostamide	OPC 3689	Cyclic Nucleotides	Enzyme	Inhibitor	PDE III	cGMP-inhibited phosphodiesterase inhibitor (PDE III)
3260	J20	C 8395	Cephradine	Cefradin; SQ-11436	Antibiotic			Cell wall synthesis	Semisynthetic cephalosporin antibiotic; interferes with cell wall synthesis
3260	J22	C 9511	Z-L-Phe chloromethyl ketone	N-Carbobenzoxy-L-phenylalanyl chloromethyl ketone; ZPCK	Biochemistry	Enzyme	Inhibitor	Chymotrypsin A-gamma	Bovine chymotrypsin A-gamma inhibitor
3260	L04	C 3353	CGP-74514A hydrochloride	N2-(cis-2-Aminocyclohexyl)-N6-(3-chlorophenyl)-9-ethyl-9H-purine-2,6-diamine hydrochloride; Compound 13	Phosphorylation	Enzyme	Inhibitor	Cdk1	Cdk1 inhibitor
3260	L06	C 4024	Carbamazepine	5H-Dibenz[b,f]azepine-5-carboxamide	Anticonvulsant				Analgesic; anticonvulsant
3260	L08	C 4522	Cimetidine	SKF-92334; Tagamet	Histamine		Antagonist	H2	H2 Histamine receptor antagonist; anti-ulcer agent
3260	L10	C 5134	2-Chloroadenosine	2-CADO	Adenosine		Agonist	A1 > A2	Adenosine receptor agonist with selectivity for A1 over A2
3260	L12	C 5976	CL 316,243	Disodium 5-[(2R)-2-[[[(2R)-2-(3-Chlorophenyl)-2-hydroxyethyl]amino]propyl]-1,3-benzodioxole-2,2-dicarboxylate	Adrenoceptor		Agonist	beta3	Beta3 adrenoceptor agonist; anti-obesity agent
3260	L14	C 6628	Chloroquine diphosphate		DNA		Intercalator	DNA	Antimalarial; anti-amoebic; anti-inflammatory; binds strongly to double-stranded DNA
3260	L16	C 7255	Cystamine dihydrochloride	Decarboxycystine dihydrochloride	Glutamate	Enzyme	Inhibitor	Transglutaminase	Transglutaminase inhibitor; substrate analog
3260	L18	C 8011	Chelidamic acid	4-Hydroxypyridine-2,6-dicarboxylic acid	Glutamate	Enzyme	Inhibitor	L-glutamic decarboxylase	L-glutamic decarboxylase inhibitor
3260	L20	A9361	Artemether	Dihydroartemisinin methyl ether, Dihydroqinghaosu methyl ether, SM-224	Immunomodulators and Antib				Artemether is a methyl ether derivative of artemisinin. It is used against multi-drug resistant strains of falciparum malaria.
3260	L22	C 9611	CPCCOEt	7-(Hydroxyimino)cyclopropa[b]chromen-1a-carboxylate ethyl ester	Glutamate		Antagonist	mGluR1	Selective non-competitive mGlu1 glutamate receptor antagonist

ICCB-L Plate	ICCB-L Well	Vendor ID	Compound Name	Sec Name	Class	Enzyme	Action	Selectivity	Description
3260	N04	C 3412	Cyproterone acetate	6-Chloro-1beta,2beta-dihydro-17-hydroxy-3'H-cyclopropa(1,2)-pregna-1,4,6-triene-3,20-dione acetate	Hormone		Antagonist	Androgen	Androgen antagonist; synthetic steroid
3260	N06	C 4042	Captopril	(S)-1-(3-Mercapto-2-methyl-1-oxo-propyl)-L-proline	Neurotransmission	Enzyme	Inhibitor	ACE	Angiotensin-converting enzyme (ACE) inhibitor; antihypertensive
3260	N08	C 4542	Cyclobenzaprine hydrochloride	5-(3-Dimethylaminopropylidene)dibenzofa,e]cycloheptatriene hydrochloride	Serotonin		Antagonist	5-HT2	5-HT2 serotonin receptor antagonist
3260	N10	C 5259	Bethanechol chloride	Carbamyl-beta-methylcholine chloride	Cholinergic		Agonist	Muscarinic	Muscarinic acetylcholine receptor agonist; resistant to acetylcholinesterase and non-specific cholinesterases
3260	N12	C 5982	7-Chloro-4-hydroxy-2-phenyl-1,8-naphthyridine		Adenosine		Antagonist	A1	A1 adenosine receptor antagonist
3260	N14	C 6643	Clofibrate		Lipid	Enzyme	Modulator	Lipoprotein lipase	Antihyperlipoproteinemic; increases lipoprotein lipase activity, thus enhancing the rate of intravascular catabolism of ULDL to IDL and LDL
3260	N16	C 7291	Clomipramine hydrochloride	Anafranil hydrochloride; Chloripramine	Serotonin		Inhibitor	Reuptake	Serotonin reuptake inhibitor; antidepressant
3260	N18	C 8031	N6-Cyclopentyladenosine	CPA	Adenosine		Agonist	A1	Selective A1 adenosine receptor agonist
3260	N20	C 8645	Cinoxacin	1-Ethyl-1,4-dihydro-4-oxo[1,3]dioxolo[4,5-g]cinnoline-3-carboxylic acid	Antibiotic	Enzyme	Inhibitor		Quinolone antibacterial; enzyme inhibitor
3260	N22	C 9754	Colchicine		Cytoskeleton and ECM		Inhibitor	Tubulin	Prevents tubulin polymerization
3260	P04	C 3635	DL-p-Chlorophenylalanine methyl ester hydrochloride		Neurotransmission	Enzyme	Inhibitor	Tryptophan hydroxylase	Tryptophan hydroxylase inhibitor
3260	P06	C 4238	CNS-1102	N-(3-Ethylphenyl)-N-methyl-N'-1-naphthalenylguanidine monohydrochloride; Cerestat; Aptiganel hydrochloride	Glutamate		Antagonist	NMDA	Noncompetitive NMDA glutamate receptor antagonist.
3260	P08	C 4662	Carbetapentane citrate	1-Phenyl-cyclopentanecarboxylic acid 2-[2-(Diethylamino)ethoxy]ethyl ester citrate	Opioid		Ligand	sigma1	Opioid receptor ligand with high affinity toward sigma1 sites; antitussive
3260	P10	C 5270	Cinnarizine	1-trans-Cinnamyl-4-diphenylmethylpiperazine	Ca2+ Channel		Blocker		Ca2+ channel blocker; central and peripheral vasodilator
3260	P12	C 6019	Clotrimazole	1-(o-Chlorotriyl)imidazole	K+ Channel		Inhibitor	Ca2+-activated K+ channel	Specific inhibitor of Ca2+-activated K+ channels
3260	P14	C 6645	Cytosine-1-beta-D-arabinofuranoside hydrochloride	Arabinocytidine hydrochloride; Arabinosylcytosine hydrochloride; Ara-C hydrochloride	DNA Metabolism		Inhibitor		Selective inhibitor of DNA synthesis
3260	P16	C 7522	Calcimycin	A23187; Calcium ionophore A23187	Intracellular Calcium			Ca2+	Ca2+ ionophore used to potentiate responses to NMDA, but not quisqualate glutamate receptors
3260	P18	C 8088	Cantharidic Acid		Phosphorylation	Enzyme	Inhibitor	PP1 / PP2A	Protein phosphatase 1 (PP1) and 2A (PP2A) inhibitor
3260	P20	D6321	Droxinostat	4-(4-Chloro-2-methylphenoxy)-N-hydroxybutanamide	Gene Regulation	Enzyme	Inhibitor	HDAC3, HDAC6, and HDAC8	Droxinostat is a selective inhibitor of HDAC3, HDAC6, and HDAC8. Droxinostat is a selective inhibitor of HDAC3, HDAC6, and HDAC8
3260	P22	C 9758	L-Canavanine sulfate	L-alpha-Amino-gamma-(guanidinoxy)butyric acid sulfate	Nitric Oxide	Enzyme	Inhibitor	iNOS	Selective inhibitor of inducible nitric oxide synthase (iNOS)
3261	A03	C 9847	Cyclothiazide	6-Chloro-3,4-dihydro-3-(2-norbornen-5-yl)-2H-1,2,4-benzothiadiazine-7-sulfonamide 1,1-dioxide	Glutamate		Agonist	AMPA	Blocks the rapid desensitization of AMPA glutamate receptors
3261	A05	C-104	(±)-CPP	(±)-3-(2-Carboxypiperazin-4-yl)propyl-1-phosphonic acid	Glutamate		Antagonist	NMDA	Potent and selective NMDA glutamate receptor antagonist; anticonvulsant
3261	A07	C-141	CGS-21680 hydrochloride	2-p-(2-Carboxyethyl)phenethylamino-5'-N-ethylcarboxamidoadenosine hydrochloride	Adenosine		Agonist	A2a	A2a adenosine receptor agonist.
3261	A09	C-199	CGS-15943	9-Chloro-2-(2-furyl)[1,2,4]triazolo[1,5-c]quinazolin-5-amine	Adenosine		Antagonist	A1	Highly potent, non-selective A1 adenosine receptor antagonist
3261	A11	C-277	Chloro-IB-MECA	2-Chloro-N6-(3-iodobenzyl)-adenosine-5'-N-methyluronamide	Adenosine		Agonist	A3	A3 adenosine receptor agonist
3261	A13	D 1306	Debrisoquin sulfate	3,4-Dihydro-2(1H)-isoquinolinecarboximidamide sulfate; Ro 5-33071	Neurotransmission		Antihypertensive		Antihypertensive; metabolized to tetrahydroisoquinoline (TIQ) which may play a role in the induction of Parkinson's Disease

ICCB-L Plate	ICCB-L Well	Vendor ID	Compound Name	Sec Name	Class	Enzyme	Action	Selectivity	Description
3261	A15	D 2521	Diltiazem hydrochloride		Ca2+ Channel		Antagonist	L-type	Ca2+ channel antagonist selective for slow, or L-type, channels; stimulates 1,4-dihydropyridine binding to Ca2+ channels; coronary vasodilator
3261	A17	D 3689	(S)-3,5-Dihydroxyphenylglycine	S-DHPG	Glutamate		Agonist	mGluR1	Group I metabotropic glutamate receptor (mGluR1) agonist
3261	A19	D 4505	Phenytoin sodium	5,5-Diphenylhydantoin sodium	Anticonvulsant				Anticonvulsant; anti-epileptic
3261	A21	D 5564	Daphnetin	7,8-Dihydroxycoumarin	Phosphorylation	Enzyme	Inhibitor	PK	Protein kinase (PK) inhibitor
3261	C03	C 9901	N6-Cyclohexyladenosine	CHA	Adenosine		Agonist	A1	Selective A1 adenosine receptor agonist
3261	C05	C-106	CGS-12066A maleate	7-Trifluoromethyl-4-(4-methyl-1-piperazinyl)-pyrrol[1,2-a]quinoxaline maleate	Serotonin		Agonist	5-HT1B	5-HT1B Serotonin receptor agonist
3261	C07	Y 0503	Y-27632 dihydrochloride	(R)-(+)-trans-4-(1-Aminoethyl)-N-(4-Pyridyl)cyclohexanecarboxamide dihydrochloride	Phosphorylation	Enzyme	Inhibitor	ROCK	Highly potent, cell-permeable, and selective Rho-associated coiled-coil forming protein serine/threonine kinase (ROCK) inhibitor. Also inhibits ROCK-II with equal potency. The inhibition is competitive with respect to ATP.
3261	C09	C-203	2-Chloro-2-deoxy-D-glucose	2-Chloro-DG	Biochemistry		Analog	Glucose	Analog of 2-fluoro-2-deoxyglucose
3261	C11	D 0411	WB-4101 hydrochloride	2-(2,6-Dimethoxyphenoxyethyl)aminomethyl-1,4-benzodioxane hydrochloride	Adrenoceptor		Antagonist	alpha1A	alpha1A Adrenoceptor antagonist
3261	C13	D 1413	2',3'-didehydro-3'-deoxythymidine	2',3'-Anhydrothymidine; d4T	Immune System	Enzyme	Inhibitor	Reverse Transcriptase	Nucleoside analog; inhibits HIV replication in vitro
3261	C15	D 2531	Dextromethorphan hydrobromide monohydrate	d-3-Methoxy-N-methylmorphinan hydrobromide	Glutamate		Antagonist	NMDA	Allosteric antagonist at NMDA-controlled ion channels
3261	C17	D 3768	Dequalinium chloride hydrate	1,1'-Decamethylenebis(4-aminoquinolindinium) dichloride	K+ Channel		Blocker		Selective blocker of apamin-sensitive K+ channels
3261	C19	D 4526	Doxepin hydrochloride		Adrenoceptor		Inhibitor	Uptake	Antidepressant; antipruritic
3261	C21	D 5689	DM 235		Nootropic				Potent nootropic agent
3261	E03	C 9911	(S)-(+)-Camptothecin		Apoptosis	Enzyme	Inhibitor	TopoI	DNA topoisomerase I inhibitor
3261	E05	C-108	2-Cyclooctyl-2-hydroxyethylamine hydrochloride	CONH hydrochloride	Neurotransmission	Enzyme	Inhibitor	PNMT	Inhibitor of phenylethanolamine N-methyltransferase (PNMT)
3261	E07	C-144	1-(m-Chlorophenyl)-biguanide hydrochloride	m-CPBG hydrochloride	Serotonin		Agonist	5-HT3	5-HT3 serotonergic receptor agonist
3261	E09	T0202	Tocainide hydrochloride	2-Amino-N-(2,6-dimethylphenyl)propanamide hydrochloride	Na+ Channel		Blocker		Sodium channel blocker. Class IB antiarrhythmic.
3261	E11	D 0540	DNQX	6,7-Dinitroquinoxaline-2,3-dione	Glutamate		Antagonist	Kainate/quisqualate	Potent, competitive kainate/quisqualate glutamate receptor antagonist
3261	E13	D 1414	Droperidol	1-[1-[3-(p-Fluorobenzoyl)propyl]-1,2,3,6-tetrahydro-4-pyridyl]-2-benzimidazolinone	Dopamine		Antagonist	D1/D2	D1, D2 dopamine receptor antagonist
3261	E15	C3993	Carvedilol	1-(9H-Carbazol-4-yloxy)-3-[[2-(2-methoxyphenoxy)ethyl]amino]-2-propanol	Adrenoceptor		Blocker	alpha1/beta	Antihypertensive; cardioprotective
3261	E17	D 3775	Doxylamine succinate		Histamine		Antagonist	H1	H1 Histamine receptor antagonist
3261	E19	P-152	S(-)-Pindolol		Adrenergic		Antagonist	beta	Beta adrenergic receptor antagonist; vasodilator. Non-selective 5-HT1 serotonin receptor ligand.
3261	E21	D 5766	5,5-Dimethyl-1-pyrroline-N-oxide	DMPO	Cell Stress	Enzyme	Inhibitor	Antioxidant	Neuroprotective agent
3261	G03	PZ0016	Dofetilide	UK-68798, N-[4-[2-[Methyl[2-[4-[(methylsulfonyl)amino]phenoxy]ethyl]amino]ethyl]phenyl]methanesulfonamide	Ion Channels		Channel Blocker	hERG	Dofetilide is a Class III antiarrhythmic and hERG channel blocker. Dofetilide selectively blocks the rapid component of the delayed rectifier outward potassium current (IKr).
3261	G05	C-117	5-Carboxamidotryptamine maleate	5-CT; AH-21467	Serotonin		Agonist	5-HT7	5-HT7 Serotonin receptor agonist
3261	G07	C-145	2-Chloroadenosine triphosphate tetrasodium	2-Chloro-ATP tetrasodium	P2 Receptor		Agonist	P2Y	P2Y receptor agonist
3261	G09	C-223	Cirazoline hydrochloride	2-[[2-(2-Cyclopropylphenoxy)methyl]-4,5-dihydro-1H-imidazole hydrochloride	Adrenoceptor		Agonist	alpha1A	Selective alpha1 adrenoceptor agonist; non-selective imidazoline binding site ligand
3261	G11	D 0670	Dihydroouabain		Ion Pump		Inhibitor	Na+/K+ Pump	Sodium-potassium pump inhibitor
3261	G13	D 1507	L-3,4-Dihydroxyphenylalanine methyl ester hydrochloride	Methyl L-DOPA hydrochloride	Dopamine		Precursor		Precursor to L-DOPA that crosses the blood-brain barrier
3261	G15	D 2763	Dihydroergotamine methanesulfonate		Serotonin		Antagonist		Ergot alkaloid; vasoconstrictor; competitive serotonin receptor antagonist; partial agonist at alpha adrenoceptors and D2 dopamine receptors
3261	G17	D 3900	Desipramine hydrochloride		Adrenoceptor		Inhibitor	Uptake	Antidepressant
3261	G19	D 5290	(-)-alpha-Methylnorepinephrine	Levonordefrin; (-)-3,4-Dihydroxynorephedrine	Adrenoceptor		Agonist		Active enantiomer; adrenoceptor agonist; vasoconstrictor; antihypertensive
3261	G21	D 5782	2',3'-dideoxycytidine	ddC	Immune System	Enzyme	Inhibitor	Reverse Transcriptase	Nucleoside analog; reverse transcriptase inhibitor; antiviral
3261	I03	E9531	Ebastine	1-[4-(1,1-Dimethylethyl)phenyl]-4-[4-(diphenylmethoxy)-1-piperidinyl]-1-butanone	Histaminergics		Antagonist	H1	Nonsedating histamine H1 receptor antagonist without cardiac side effects at 5X effective dose.

ICCB-L Plate	ICCB-L Well	Vendor ID	Compound Name	Sec Name	Class	Enzyme	Action	Selectivity	Description
3261	I05	C3618	Cetirizine dihydrochloride	[2-[4-(4-Chlorophenyl)phenylmethyl]-1-piperazinyl]ethoxy]acetic acid dihydrochloride	Histamine		Antagonist	H1	Orally active, non-sedating, and selective H1 histamine receptor antagonist; antihistamine;.
3261	I07	C-147	(+)-Cyclazocine		Opioid		Antagonist		Sigma opioid receptor antagonist
3261	I09	C-231	CGP 20712A methanesulfonate	(+/-)-2-Hydroxy-5-[2-[[2-hydroxy-3-[4-[1-methyl-4-(trifluoromethyl)-1H-imidazol-2-yl]phenoxy]propyl]amino]ethoxy]-benzamide methanesulfonate	Adrenoceptor		Antagonist	beta1	Selective beta1-adrenoceptor antagonist
3261	I11	D 0676	Dobutamine hydrochloride	(±)-4-[2-[[3-(4-Hydroxyphenyl)-1-methylpropyl]amino]ethyl]-1,2-benzenediol hydrochloride	Adrenoceptor		Agonist	beta1	beta1 Adrenoceptor agonist
3261	I13	D 1542	1,4-Dideoxy-1,4-imino-D-arabinitol	DAB; 2-Hydroxymethyl-3,4-pyrrolidinediol	Phosphorylation	Enzyme	Inhibitor	Glycogen phosphorylase	Allosteric glycogen phosphorylase inhibitor
3261	I15	D 2926	Diphenyleonium chloride	[1,1'-Biphenyl]-2,2'-diiodonium chloride	Nitric Oxide	Enzyme	Inhibitor	eNOS	Endothelial nitric oxide synthase inhibitor
3261	I17	M 1777	N-Methyl-1-deoxynojirimycin	1,5-Dideoxy-1,5-imino-1-methyl-D-sorbitol	Biochemistry	Enzyme	Inhibitor	Glucosidase	Interferes with metabolism of N-linked glycoproteins by inhibition of glucosidase
3261	I19	D 5294	Dilazep hydrochloride	Cormelian	Adenosine		Inhibitor	Uptake	Adenosine uptake inhibitor
3261	I21	D 5794	Diacylglycerol Kinase Inhibitor II	R59949	Phosphorylation	Enzyme	Inhibitor	Diacylglycerol kinase	Diacylglycerol kinase inhibitor
3261	K03	PZ0104	CP-91149	5-Chloro-N-[(1S,2R)-3-(dimethylamino)-2-hydroxy-3-oxo-1-(phenylmethyl)propyl]-1H-indole-2-carboxamide	Phosphorylation	Enzyme	Inhibitor	glycogen phosphorylase	CP-91149 is a selective glycogen phosphorylase inhibitor.
3261	K05	C-125	(±)-CGP-12177A hydrochloride	4-[4-[(1,1-Dimethylethyl)amino]-2-hydroxypropoxy]-1,3-dihydro-2H-benzimidazol-2-one hydrochloride	Adrenoceptor		Agonist	beta	Mixed beta adrenoceptor agonist/antagonist
3261	K07	C-191	Capsazepine	N-[2-(4-Chlorophenyl)ethyl]-1,3,4,5-tetrahydro-7,8-dihydroxy-2H-2-benzazepine-2-carbothioamide	Vanilloid		Agonist		Synthetic analog of capsaicin that acts as a specific vanilloid receptor antagonist
3261	K09	C-237	(2S,1'S,2'S)-2-(carboxycyclopropyl)glycine	L-CCG-1	Glutamate		Agonist	mGluR2	Potent group II metabotropic glutamate receptor agonist
3261	K11	D 1064	Dihydrokainic acid	2-Carboxy-4-isopropyl-3-pyrrolidineacetic acid	Glutamate		Blocker	Kainate	Non-transportable glutamate analog that blocks glutamate receptors
3261	K13	K3519	KRM-III	1,3-Dihydro-1,4-diphenyl-2H-imidazole-2-thione	Immunomodulators and Antibiotics	Enzyme	Inhibitor		KRM-III is an inhibitor of T cell antigen receptor (TCR), an inhibitor of phorbol myristate acetate (PMA) /ionomycin-induced nuclear factor of activated T cells (NFAT) activation and T cell proliferation.
3261	K15	D 3630	Diphenhydramine hydrochloride		Histamine		Antagonist	H1	H1 Histamine receptor antagonist
3261	K17	D 4007	5,5-Diphenylhydantoin	Phenytoin	Anticonvulsant				Anticonvulsant; appears to stabilize excitable membranes perhaps through effects on Na+, K+, and Ca2+ channels
3261	K19	G 7795	Ganaxolone	3a-Hydroxy-3beta-methyl-5a-pregnan-20-one	GABA		Modulator	GABA-A	Positive allosteric modulator of GABA-A receptors
3261	K21	C0494	Cambinol	NSC-1125476; Tetrahydro-5-[(2-hydroxy-1-naphthalenyl)methyl]-6-phenyl-2-thioxo-4(1H)-Pyrimidinone	Gene Regulation	Enzyme	Inhibitor	SIRT1/2	Sirtuin (Human Silent Information Regulator) Type 1/2 Inhibitor.
3261	M03	C-101	8-Cyclopentyl-1,3-dipropylxanthine	DPCPX; PD 116,948	Adenosine		Antagonist	A1	Selective A1 adenosine receptor antagonist
3261	M05	C1335	S-(-)-Carbidopa		Biochemistry	Enzyme	Inhibitor	L-aromatic amino acid decarboxylase	Peripherally active L-aromatic amino acid decarboxylase inhibitor; used in combination with levodopa for the treatment of Parkinson's Disease.
3261	M07	C-192	Chlormezanone	2-(4-Chlorophenyl)tetrahydro-3-methyl-4H-1,3-thiazin-4-one 1,1-dioxide	Neurotransmission		Modulator	Muscle relaxant	Anxiolytic; muscle relaxant
3261	M09	C-239	CNQX disodium	6-Cyano-7-nitroquinoxaline-2,3-dione	Glutamate		Antagonist	AMPA/Kainate	Potent, competitive AMPA/kainate glutamate receptor antagonist
3261	M11	D 1260	Decamethonium dibromide	Decamethylene bis(trimethylammonium bromide)	Cholinergic		Agonist	Nicotinic	Nicotinic acetylcholine receptor partial agonist; depolarizing neuromuscular blocker
3261	M13	D 1916	D-ribofuranosylbenzimidazole	DRB; 5,6-Dichlorobenzimidazole riboside	Transcription		Inhibitor		Inhibitor of RNA synthesis; chain terminator
3261	M15	D 3634	2,3-Butanedione	Biacetyl; BDM	Cytoskeleton and ECM	Enzyme	Inhibitor	Myosin ATPase	Reversible myosin ATPase inhibitor

ICCB-L Plate	ICCB-L Well	Vendor ID	Compound Name	Sec Name	Class	Enzyme	Action	Selectivity	Description
3261	M17	D 4268	N ^α G,N ^α G-Dimethylarginine hydrochloride	asym-Dimethylarginine hydrochloride ADMA	Nitric Oxide	Enzyme	Inhibitor	NOS	Reversible inhibitor of nitric oxide synthetase in vivo and in vitro
3261	M19	D 5385	1,7-Dimethylxanthine	Paraxanthine	Adenosine		Antagonist	A1 > A2	Adenosine receptor ligand; major metabolite of caffeine
3261	M21	D 5886	N-Methyl-dopamine hydrochloride	Epinine hydrochloride; Deoxyepinephrine hydrochloride	Dopamine		Agonist		Dopamine receptor agonist
3261	O03	C-102	8-Cyclopentyl-1,3-dimethylxanthine	CPT; 8-Cyclopentyltheophylline	Adenosine		Antagonist	A1	Selective A1 adenosine receptor antagonist
3261	O05	C-130	(±)-Chloro-APB hydrobromide	(±)-SKF-82958 hydrobromide	Dopamine		Agonist	D1	D1 dopamine receptor agonist.
3261	O07	C-197	8-(3-Chlorostyryl)caffeine	CSC	Adenosine		Antagonist	A2A	Selective A2A adenosine receptor antagonist
3261	O09	C-271	CX 546	1-(1,4-Benzodioxan-6-ylcarbonyl)piperidine	Glutamate		Modulator	AMPA	Positive AMPA glutamate receptor modulator; more potent than 1-BCP
3261	O11	D 1262	P1,P4-Di(adenosine-5')tetraphosphate triammonium	Ap4A	Biochemistry		Inhibitor		Dinucleoside polyphosphate that competitively inhibits ADP-induced platelet aggregation
3261	O13	S4572	SANT-1	(4-Benzyl-piperazin-1-yl)-(3,5-dimethyl-1-phenyl-1H-pyrazol-4-ylmethylene)-amine	Angiogenesis		Inhibitor	Smo	Potent sonic hedgehog pathway (Shh) antagonist; inhibits by binding directly to smoothened (Smo) receptor.
3261	O15	D 3648	N,N,N',N'-Tetramethylazodicarboxamide	Azodicarboxylic acid bis(dimethylamide); diamide	Cell Stress		Modulator	Thiols	Thiol-oxidizing agent
3261	O17	D 4434	Clodronic acid	Cl2MDP; Clodronic acid disodium magnesium salt; DMDP	Cytoskeleton and ECM	Enzyme	Inhibitor	MMP1 / collagenase	Matrix metalloproteinase 1 (MMP1) and collagenase inhibitor
3261	O19	D 5439	2,3-Dimethoxy-1,4-naphthoquinone	DMNQ	Cell Stress		Modulator		Redox cycling agent used to study role of ROS (reactive oxygen species)
3261	O21	D 5891	1,1-Dimethyl-4-phenyl-piperazinium iodide	DMPP	Cholinergic		Agonist		Nicotinic acetylcholine receptor agonist
3261	A04	P 9248	PD 169316	4-(4-Fluorophenyl)-2-(4-nitrophenyl)-5-(4-pyridyl)-1H-imidazole	Phosphorylation	Enzyme	Inhibitor	p38 MAP kinase	Potent, cell permeable and selective p38 MAP kinase inhibitor; nM potency
3261	A06	D 7644	Disopyramide	alpha-Diisopropylaminoethyl-alpha-phenylpyridine-2-acetamide	Na+ Channel		Blocker		Sodium channel blocker; class IA antiarrhythmic
3261	A08	D 8065	Dephostatin	2-(N-methyl-N-nitroso)hydroquinone	Phosphorylation	Enzyme	Inhibitor	CD45 Tyrosine Kinase	CD45 protein tyrosine kinase inhibitor
3261	A10	D 9035	Diazoxide		K+ Channel		Activator	ATP-sensitive	Activator of ATP-dependent K+ channels in both vascular smooth muscle and pancreatic beta-cells; antihypertensive
3261	A12	D 9891	Doxycycline hydrochloride		Antibiotic			Protein synthesis	6-deoxytetracycline antibiotic; interferes with protein synthesis
3261	A14	PZ0008	Celecoxib	CJ-016377, CP-598107, PF-00345549, PHA-00846533, SC-58635, YM-177, 4-[5-(4-Methylphenyl)-3-(trifluoromethyl)-1H-pyrazol-1-yl]benzenesulfonamide	Lipids	Enzyme	Inhibitor	COX-2	Celecoxib is a non-steroidal, anti-inflammatory drug (NSAID) and a cyclooxygenase-2 (COX-2) selective inhibitor.
3261	A16	D-104	4-DAMP methiodide	4-Diphenylacetoxyl-N-methylpiperidine methiodide	Cholinergic		Antagonist	M3	M3 muscarinic acetylcholine receptor antagonist.
3261	A18	PZ0011	Eletriptan hydrobromide		Serotonin		Agonist	5-HT1B/1D	Eletriptan hydrobromide is a serotonin 5-HT1B/1D receptor agonist; second generation anti-migraine drug.
3261	A20	A5181	Anisotropine methyl bromide	8-Methyl-3-(2-propylpentanoyloxy)tropinium bromide	Muscarinic		Antagonist		is a muscarinic antagonist and antispasmodic
3261	A22	E 1279	Enoximone	1,3-Dihydro-4-methyl-5-[4-methylthiobenzoyl]-2H-imidazol-2-one	Cyclic Nucleotides	Enzyme	Inhibitor	PDE III	Selective phosphodiesterase III (PDE III) inhibitor
3261	C04	D 6035	Disopyramide phosphate		K+ Channel		Modulator		K+ channel modulator; anti-arrhythmic; cardiac depressant
3261	C06	D 7802	Daidzein	7-Hydroxy-3-(4-hydroxyphenyl)-4H-1-benzopyran-4-one	Cell Cycle	Enzyme	Inhibitor	Aldehyde dehydrogenase	Isoflavonoid cytostatic agent that arrests the cell cycle at G1; inhibitor of mitochondrial aldehyde dehydrogenase
3261	C08	I6659	Imperatorin	9-[(3-Methyl-2-buten-1-yl)oxy]-7-hydro[3,2-g][1]benzopyran-7-one	Phosphorylation	Enzyme	Modulator	p38 / ERK	A modulator of p38, ERK pathway. Imperatorin increases BMP-2 expression (mRNA) and increases bone density/volume and mineralization in vivo.
3261	C10	D 9128	3,4-Dihydroxyphenylacetic acid	DOPAC	Dopamine		Metabolite		Product of dopamine degradation by MAO and aldehyde dehydrogenase
3261	C12	D-002	6,7-ADTN hydrobromide	(±)-2-Amino-6,7-dihydroxy-1,2,3,4-tetrahydro-naphthalene hydrobromide	Dopamine		Agonist		Dopamine receptor agonist
3261	C14	M 7945	Mephetyl tetrazole	1-[2-(4-Methoxyphenyl)ethyl]-5-(1-p-tolylcyclopropyl)-1H-tetrazole	K+ Channel		Blocker	Kv1.5	Potent and selective Kv1.5 potassium channel blocker.
3261	C16	D-108	1,3-Dipropyl-7-methylxanthine		Adenosine		Antagonist	A2	Caffeine analog with some selectivity for A2 adenosine receptors
3261	C18	A 8054	D(-)-2-Amino-5-phosphonopentanoic acid	D(-)-AP-5, D(-)-APV, D-2-Amino-5-phosphonovaleric acid	Glutamate		Antagonist	NMDA-glycine	Potent and selective antagonist for NMDA receptors

ICCB-L Plate	ICCB-L Well	Vendor ID	Compound Name	Sec Name	Class	Enzyme	Action	Selectivity	Description
3261	C20	D1920-6	2,4-Diamino-6-pyrimidinone	DAHP; 2,4-Diamino-6-hydroxypyrimidine	Phosphorylation	Enzyme	Inhibitor	GTP cyclohydrolase I	Inhibitor of GTP cyclohydrolase I, the rate-limiting enzyme in tetrahydrobiopterin (BH4) biosynthesis; blocks the induction of nitric oxide synthesis
3261	C22	E 1383	Etoposide	Lastet	Apoptosis	Enzyme	Inhibitor	Topo II	Topoisomerase II inhibitor; induces apoptosis; cell cycle inhibitor
3261	E04	D 6140	Demeclocycline hydrochloride	7-chloro-6-demethyltetracycline hydrochloride	Antibiotic			Protein synthesis	Tetracycline antibiotic; interferes with protein synthesis
3261	E06	C1493	Cilnidipine	1,4-Dihydro-2,6-dimethyl-4-(3-nitrophenyl)-3,5-pyridinedicarboxylic acid 2-methoxyethyl (2E)-3-phenyl-2-propenyl ester	Ca2+ Channels		Blocker	L-type	Slow-acting Ca2+ channel blocker; antihypertensive; vasodilator. Does not inhibit PKC.
3261	E08	D 8296	3-deazaadenosine	4-Amino-1-(beta-D-ribofuranosyl)-1H-imidazo(4,5)-pyridine	Immune System		Inhibitor		Antiviral
3261	E10	D 9175	Dantrolene sodium	1-([5-(p-Nitrophenyl)furfurylidene]amino)hydantoin	Intracellular Calcium		Inhibitor	Release	Inhibits intracellular Ca2+ release from the sarcoplasmic reticulum; muscle relaxant.
3261	E12	D-003	R(-)-Apocodeine hydrochloride	R(-)-10-Methoxy-11-hydroxyaporphine hydrochloride	Dopamine		Agonist		Dopamine receptor agonist; apomorphine metabolite
3261	E14	I 9532	Icilin	AG-3-5; 1-(2-Hydroxyphenyl)-4-(3-nitrophenyl)-1,2,3,6-tetrahydropyrimidin-2-one	Neurotransmission		Agonist	CMR1	Potent agonist at the CMR1 cold- and menthol-sensitive receptor.
3261	E16	D-122	Domperidone		Dopamine		Antagonist	D2	Peripheral dopamine receptor antagonist that does not cross the blood-brain barrier; anti-emetic
3261	E18	D-134	3,7-Dimethyl-1-propargylxanthine	DMPX	Adenosine		Antagonist	A2	A2 adenosine receptor antagonist.
3261	E20	D-193	DL-alpha-Difluoromethylornithine hydrochloride	DFMO hydrochloride	Angiogenesis	Enzyme	Inhibitor	ODC	Selective irreversible ornithine decarboxylase (ODC) inhibitor.
3261	E22	E 1779	ET-18-OCH3	3,5,9-Trioxa-4-phosphaheptacosan-1-aminium	Lipid	Enzyme	Inhibitor	PIPLC	Phosphoinositide-specific Phospholipase C (PI-PLC) inhibitor
3261	G04	D 6518	Diethylenetriaminepentaacetic acid	Pentetic acid; DTPA	Biochemistry	Enzyme	Inhibitor	Zn2+-dependent protease	Zinc-dependent proteases carboxypeptidase A and aminopeptidase N inhibitor; chelating agent
3261	G06	D 7909	Dicyclomine hydrochloride	2-(Diethylamino)ethyl 1-cyclohexylcyclohexane-1-carboxylate hydrochloride	Cholinergic		Antagonist	Muscarinic	Competitive muscarinic acetylcholine receptor antagonist
3261	G08	C0256	Cytidine 5'-diphosphocholine sodium salt hydrate	Citicholine sodium	Lipid Signaling	Enzyme	Inhibitor	PLA2	Neuroprotective in situations of hypoxia and ischemic; cerebral vasodilator; inhibits PLA2 activation.
3261	G10	D 9190	DCEBIO	5,6-Dichloro-1-ethyl-1,3-dihydro-2H-benzimidazol-2-one	K+ Channel		Activator	hK1	Increases epithelial chloride secretion through the synergistic activation of a basolateral membrane-located K+ channel (hK1) and an apical membrane Cl-conductance
3261	G12	D-027	R(-)-Propylnorapomorphine hydrochloride	R(-)-NPA hydrochloride	Dopamine		Agonist	D2	Highly potent and selective D2 dopamine receptor agonist
3261	G14	D-047	(±)-SKF-38393 hydrochloride	(±)-1-Phenyl-2,3,4,5-tetrahydro-(1H)-3-benzazepine-7,8-diol hydrochloride	Dopamine		Antagonist	D1	D1 Dopamine receptor agonist
3261	G16	D126608	Propofol		Cholinergic		Inhibitor	Muscarinic	Short acting general anesthetic
3261	G18	D-138	5,7-Dichlorokynurenic acid	5,7-Dichloro-4-hydroxyquinoline-2-carboxylic acid	Glutamate		Antagonist	NMDA-glycine	Potent excitatory amino acid receptor antagonist; active at the strychnine-insensitive glycine binding site of the NMDA glutamate receptor
3261	G20	S 4443	SCH-28080	2-Methyl-8-(phenylmethoxy)imidazo[1,2-a]pyridine-3-acetonitrile	Ion Channels	Enzyme	Inhibitor	H+/K+-ATPase	Potent inhibitor of gastric H+ and K+-ATPase.
3261	G22	E 1896	Etazolate hydrochloride	SQ 20,009; 1-Ethyl-4-[(1-methylethylidene)hydrazino]-1H-pyrazolo[3,4-b]pyridine-5-carboxylic acid ethyl ester hydrochloride	Adenosine	Enzyme	Inhibitor	Phosphodiesterase	Phosphodiesterase inhibitor
3261	I04	D 6899	Diclofenac sodium	2-[(2,6-Dichlorophenyl)amino]benzeneacetic acid sodium	Prostaglandin	Enzyme	Inhibitor	COX	Cyclooxygenase inhibitor; anti-inflammatory
3261	I06	D 7910	3,4-Dichloroisocoumarin	3,4-DCI	Biochemistry	Enzyme	Inhibitor	Serine Protease	Serine protease inhibitor
3261	I08	D 8399	Danazol		Hormone		Inhibitor		Anterior pituitary suppressant; weak androgen
3261	I10	D 9305	1-Deoxynojirimycin hydrochloride	DNM; 1,5-Dideoxy-1,5-imino-D-sorbitol hydrochloride	Biochemistry	Enzyme	Inhibitor	alpha-glucosidase	alpha-glucosidase I-II inhibitor
3261	I12	D-029	R(-)-2,10,11-Trihydroxyaporphine hydrobromide	R(-)-2-Hydroxyapomorphine hydrobromide	Dopamine		Agonist	D2	D2 dopamine receptor agonist
3261	I14	D-052	GBR-12909 dihydrochloride	1-[2-bis(4-Fluorophenyl)methoxy]ethyl]-4-[3-phenylpropyl]piperazine dihydrochloride	Dopamine		Inhibitor	Reuptake	Selective dopamine reuptake inhibitor

ICCB-L Plate	ICCB-L Well	Vendor ID	Compound Name	Sec Name	Class	Enzyme	Action	Selectivity	Description
3261	I16	N 2288	Nefiracetam	2-(2-Oxopyrrolidin-1-yl)-N-(2,6-dimethylphenyl)-acetamide	Neurotransmission		Nootropic		Pyrrolidone-type nootropic agent with various pharmacologic as well as cognition-enhancing effects.
3261	I18	D5676	N-Desmethylozapine	8-Chloro-11-piperazinyl-5H-dibenzo[b,e][1,4]diazepine, Norclozapine, Normethylozapine	Cholinergic		Antagonist	5-HT2 Serotonin/M1 Muscarinic	Major metabolite of clozapine; potent 5-HT2 serotonin receptor antagonist and a ligand for the cloned 5-HT6 and 5-HT7 serotonin receptors. Also an allosteric potentiator of M1 muscarinic receptors
3261	I20	V7264	Venlafaxine hydrochloride	(+/-)-1-[2-(Dimethylamino)-1-(4-methoxyphenyl)ethyl]cyclohexanol hydrochloride	Serotonin		Reuptake	5-HT and NE	Dual serotonin and norepinephrine reuptake inhibitor. Antidepressant.
3261	I22	C 8863	7-Cyclopentyl-5-(4-phenoxyphenyl)-7H-pyrrolo[2,3-d]pyrimidin-4-ylamine		Phosphorylation	Enzyme	Inhibitor	Ick	Potent and selective Ick (src family tyrosine kinase) inhibitor.
3261	K04	D 6908	DL-erythro-Dihydrosphingosine	DL-Sphinganine	Phosphorylation	Enzyme	Inhibitor	PKC / PLA2 / PLD	Protein kinase C, phospholipase A2, and phospholipase D inhibitor
3261	K06	D 7938	DBO-83	3-(6-Chloro-3-pyridazinyl)-3,8-diazabicyclo[3.2.1]octane dihydrochloride	Cholinergic		Agonist	Nicotinic	Nicotinic acetylcholine receptor agonist
3261	K08	D 8555	N,N-Dihexyl-2-(4-fluorophenyl)indole-3-acetamide	FGIN-1-27	Benzodiazepine		Ligand	Mitochondria	High affinity ligand for glial mitochondrial benzodiazepine receptors
3261	K10	D 9628	L-3,4-Dihydroxyphenylalanine	L-DOPA; Levodopa	Dopamine		Precursor		Precursor to dopamine; antiparkinsonian agent
3261	K12	D-030	R(-)-2,10,11-Trihydroxy-N-propylnoraporphine hydrobromide	R(-)-TNSA HBr; R(-)-2-OH-NPA hydrobromide	Dopamine		Agonist	D2	Potent and selective D2 dopamine receptor agonist
3261	K14	D-054	R(+)-SCH-23390 hydrochloride	R(+)-7-Chloro-8-hydroxy-3-methyl-1-phenyl-2,3,4,5-tetrahydro-1H-3-benzazepine hydrochloride	Dopamine		Antagonist	D1	Selective D1 dopamine receptor antagonist
3261	K16	D-129	R(+)-Butylindazone	R(+)-DIOA	Ion Pump		Inhibitor	K+/Cl- transport	Potent [K+, Cl-]-cotransport inhibitor that shows no side effects on the bumetanide-sensitive [Na+, K+, Cl-]-cotransport system
3261	K18	D14204	1,10-Diaminodecane	DA10; Decamethylenediamine	Glutamate		Agonist (inverse)	NMDA-polyamine	Inverse agonist at the polyamine recognition site of the NMDA glutamate receptors
3261	K20	E 0137	Vanillic acid diethylamide	Ethamivan	Vanilloid		Agonist		CNS and respiratory stimulant
3261	K22	E 2375	Emetine dihydrochloride hydrate		Apoptosis		Activator		Apoptosis inducer; RNA-Protein translation inhibitor
3261	M04	D 6940	R(-)-Desmethyldeprenyl hydrochloride	L-Nordeprenyl hydrochloride	Neurotransmission	Enzyme	Inhibitor	MAO-B	MAO-B inhibitor; metabolite of L-deprenyl
3261	M06	D 8008	7,7-Dimethyl-(5Z,8Z)-eicosadienoic acid	DEDA	Lipid	Enzyme	Inhibitor	PLA2 / Lipoxygenase	Phospholipase A2 and lipoxygenase inhibitor
3261	M08	D 8690	(R,R)-cis-Diethyl tetrahydro-2,8-chrysenediol	(5R, 11R)-5,11-Diethyl-5,6,11,12-tetrahydro-2,8-chrysenediol	Hormone		Antagonist	ER-beta	Potent estrogen receptor beta antagonist; potent partial agonist at estrogen receptor alpha
3261	M10	D 9766	Dipyridamole		Adenosine		Inhibitor		Coronary vasodilator; adenosine transport inhibitor
3261	M12	D-031	Dipropyldopamine hydrobromide		Dopamine		Agonist		Dopamine receptor agonist
3261	M14	N1415	Naratriptan hydrochloride	Amerge, GR-85548A, N-Methyl-3-(1-methyl-4-piperidinyl)-1H-indole-5-ethanesulfonamide hydrochloride	Serotonin		Agonist	5-HT1B/1D	Naratriptan hydrochloride is a Serotonin 5-HT1B/1D receptor agonist
3261	M16	E 2031	Eliprodil	alpha-(4-Chlorophenyl)-4-[(4-fluorophenyl)methyl]-1-piperidineethanol	Glutamate		Antagonist	NMDA-polyamine	NR2B selective NMDA receptor antagonist (polyamine site); potential clinical use to treat both acute and chronic pain.
3261	M18	D-149	Dihydro-beta-erythroidine hydrobromide	3beta-1,6-Didehydro-14,17-dihydro-3-methoxy-16(15H)-oxaerythrinan-15-one hydrobromide	Cholinergic		Antagonist	nACh	Competitive nicotinic acetylcholine receptor antagonist.
3261	M20	E 0381	Epibestatin hydrochloride	[(2R,3R)-3-Amino-2-hydroxy-4-phenylbutanoyl]-L-leucine hydrochloride	Biochemistry	Enzyme	Inhibitor	Metalloprotease	Metallo-protease inhibitor; aminopeptidase inhibitor
3261	M22	E 2387	5'-N-Ethylcarboxamidoadenosine	NECA	Adenosine		Agonist	A1/A2	Potent adenosine receptor agonist with equal affinity at A1 and A2 receptors
3261	O04	D 7505	2,2'-Bipyridyl	alpha, alpha'-Bipyridyl	Biochemistry	Enzyme	Inhibitor	Metalloprotease	Metalloprotease inhibitor
3261	O06	D 8040	(±) trans-U-50488 methanesulfonate	trans-(±)-3,4-Dichloro-N-methyl-N-[2-(1-pyrrolidinyl)-cyclohexyl]-benzeneacetamide methanesulfonate	Opioid		Agonist	kappa	Selective kappa opioid receptor agonist.
3261	O08	S 5567	SP600125	Anthrapyrazolone; 1,9-Pyrazoloanthrone	Phosphorylation	Enzyme	Inhibitor	c-JNK	Selective c-Jun N-terminal kinase (c-JNK) inhibitor.
3261	O10	D 9815	Doxazosin mesylate	1-(4-amino-6,7-dimethoxy-2-quinazolinyl)-4-[4-(1,4-benzodioxan-2-yl)carpiperazin-1-yl]-6,7-dimethoxyquinazoline mesylate	Adrenoceptor		Blocker	alpha1	alpha1 adrenoceptor blocker
3261	O12	A9605	AC-93253 iodide	2-[3-(1,3-Dihydro-1,3,3-trimethyl-2H-indol-2-ylidene)-1-propenyl]-3-ethylbenzothiazolium iodide	Hormone		Agonist	RAR(a)	Potent, cell permeable, subtype selective retinoic acid receptor (RARalpha) agonist.

ICCB-L Plate	ICCB-L Well	Vendor ID	Compound Name	Sec Name	Class	Enzyme	Action	Selectivity	Description
3261	O14	D-103	(±)-2,3-Dichloro-alpha-methylbenzylamine hydrochloride	DCMB hydrochloride; LY-78335	Neurotransmission	Enzyme	Inhibitor	PNMT	Inhibitor of phenylethanolamine N-methyltransferase (PNMT); alpha2 adrenoceptor blocker
3261	O16	D-131	3,5-Dinitrocatechol	OR-486	Neurotransmission	Enzyme	Inhibitor	COMT	Selective inhibitor of catechol O-methyl transferase (COMT).
3261	O18	A 3846	AL-8810	(6Z, 13E)-(9S,11S,15R)-9,15-dihydroxy-11-fluoro-15-(2-indanyl)-16,17,18,19,20-pentanor-5,13-prostadienoic acid	Prostaglandin		Antagonist	FP Receptor	Prostaglandin F2alpha analog with selective antagonist effects at the prostaglandin F2alpha (FP) receptor
3261	O20	E 0516	Etodolac	1,8-Diethyl-1,3,4,9-tetrahydropyrano[3,4-b]indole-1-acetic acid	Prostaglandin	Enzyme	Inhibitor	COX	Non-steroidal anti-inflammatory drug (NSAID)
3261	O22	E 3132	E-64	L-trans-3-Carboxyoxiran-2-carbonyl-L-leucylagmatine	Biochemistry	Enzyme	Inhibitor	Cysteine protease	Irreversible inhibitor of cysteine proteases
3261	B03	S 3567	SB 415286	3-[(3-Chloro-4-hydroxyphenyl)amino]-4-(2-nitrophenyl)-1H-pyrrol-2,5-dione	Phosphorylation	Enzyme	Inhibitor	GSK-3	Competitive glycogen synthase kinase-3 (GSK-3) inhibitor.
3261	B05	S 3939	Staurosporine aglycone	K-252c	Phosphorylation	Enzyme	Inhibitor	PKC	K-252c is a PKC inhibitor active at submicromolar concentrations.
3261	B07	E 8375	(-)-Physostigmine	Eserine	Cholinergic	Enzyme	Inhibitor	Cholinesterase	Cholinesterase inhibitor
3261	B09	E-101	S-(-)-Eticlopride hydrochloride	FLB 131	Dopamine		Antagonist	D2	Potent and selective D2 dopamine receptor antagonist
3261	B11	U6758	UCL 2077	(3-Triphenylmethylaminomethyl)pyridine	Ion Channels		Blocker	sAHP	Slow afterhyperpolarization (sAHP) channel blocker.
3261	B13	F 6020	Fenofibrate	2-[4-(4-Chlorobenzoyl)phenoxy]-2-methylpropanoic acid 1-methyl-ethyl ester	Transcription		Agonist	PPAR-alpha	PPAR-alpha receptor agonist; lipid regulating drug
3261	B15	F 6886	Forskolin		Cyclic Nucleotides	Enzyme	Activator	Adenylate cyclase	Activates adenylate cyclase; antihypertensive and vasodilator; isolated from Coleus forskohlii
3261	B17	F 9427	Fexofenadine hydrochloride	Terfenidine carboxylate, MDL 16455	Histamine		Antagonist	H1	H1 Histamine receptor antagonist
3261	B19	D 8816	N-(3,3-Diphenylpropyl)glycinamide	N20C	Glutamate		Blocker	NMDA	NMDA glutamate receptor open channel blocker.
3261	B21	C 1625	L-Canavanine	L-alpha-Amino-gamma-(guanidinoxy)-n-butyric acid	Cell Stress	Enzyme	Inhibitor	iNOS	Naturally occurring L-amino acid. Selective inhibitor of inducible nitric oxide synthase (iNOS).
3261	D03	E 3149	S-Ethylisothiurea hydrobromide	2-Ethyl-2-thiopseudourea hydrobromide	Nitric Oxide	Enzyme	Inhibitor	NOS	Inhibitor of iNOS, eNOS, and nNOS
3261	D05	E 3876	N-Ethylmaleimide	NEM	Biochemistry	Enzyme	Inhibitor	Isocitrate dehydrogenase	Sulfhydryl alkylating agent that inactivates NADP-dependent isocitrate dehydrogenase and many endonucleases
3261	D07	N 3911	NBI 27914	5-Chloro-4-(N-(cyclopropyl)methyl-N-propylamino)-2-methyl-6-(2,4,6-trichlorophenyl)-aminopyridine	Neurotransmission		Antagonist	CRF1	CRF1 corticotropin-releasing factor receptor antagonist.
3261	D09	T 5648	Tamoxifen	(Z)-1-(p-Dimethylaminoethoxyphenyl)-1,2-diphenyl-1-butene, trans-2-[4-(1,2-Diphenyl-1-butenyl)phenoxy]-N,N-dimethylethylamine	Antibiotics/Phosphorylation	Enzyme	Inhibitor	Protein Kinase C	Protein kinase C inhibitor. Induces apoptosis in human malignant glioma cell lines. Tamoxifen and its metabolite 4-hydroxytamoxifen are selective estrogen response modifiers (SERMs) that act as estrogen antagonists in mammary gland. Blocks estradiol-s...
3261	D11	F 2802	Fluvoxamine maleate	(E)-5-Methoxy-1-[4-(trifluoromethyl)phenyl]-1-pentanone-O-(2-aminoethyl)oxime maleate	Serotonin		Inhibitor	Reuptake	Selective serotonin reuptake inhibitor
3261	D13	F 6145	Fenspiride hydrochloride	8-(2-Phenylethyl)-1-oxa-3,8-diazaspiro[4.5]decan-2-one hydrochloride	Adrenoceptor		Antagonist	alpha	alpha-Adrenoceptor antagonist; NSAID
3261	D15	F 6889	Famotidine	N-(Aminosulfonyl)-3-[(2-(diaminomethyleneamino)-4-thiazolyl)methylthio]propanamidine	Histamine		Antagonist	H2	H2 Histamine receptor antagonist
3261	D17	F 9552	Formoterol	(R*,R*)-N-[2-hydroxy-5-[1-hydroxy-2-[[2-(4-methoxyphenyl)-1-methylethyl]amino]ethyl]phenyl]formamide	Adrenoceptor		Agonist	beta2	beta2-Adrenoceptor agonist
3261	D19	G 0639	Glybenclamide	Glyburide	K+ Channel		Blocker	ATP-dependent	Antidiabetic agent which blocks pancreatic ATP-dependent K+ channels resulting in an increase in intracellular Ca2+ and consequent insulin secretion
3261	D21	B 7273	Bezafibrate	2-[4-[2-(4-Chlorobenzamido)ethyl]phenoxy]-2-methylpropanoic acid	Transcription		Agonist	PPAR	Bezafibrate is a peroxisome proliferator-activated receptor agonist for PPAR-alpha PPAR-delta and PPAR-gamma Lipoprotein lipase (LPL) activator.

ICCB-L Plate	ICCB-L Well	Vendor ID	Compound Name	Sec Name	Class	Enzyme	Action	Selectivity	Description
3261	F03	E 5156	Epinastine hydrochloride	9,13b-Dihydro-1H-dibenz[cf]imidazo[1,5-a]zepine hydrochloride	Histamine		Antagonist	H1	Non-sedating H1 histamine receptor antagonist.
3261	F05	E 4375	(-)-Epinephrine bitartrate	Adrenaline bitartrate	Adrenoceptor		Agonist		Endogenous hormone and neurotransmitter
3261	F07	E 8875	beta-Estradiol	Dihydrofolliculin	Hormone			Estrogen	Major estrogen secreted by premenopausal ovary
3261	F09	E-114	erythro-9-(2-Hydroxy-3-nonyl)adenine hydrochloride	EHNA hydrochloride	Adenosine	Enzyme	Inhibitor	Adenosine deaminase	Potent adenosine deaminase inhibitor
3261	F11	A 0231	AS 604850	5-(2,2-Difluoro-benzo[1,3]dioxol-5-ylmethylene)-thiazolidine-2,4-dione	Phosphorylation	Enzyme	Inhibitor	PI3Kgamma	selective PI3Kgamma inhibitor
3261	F13	F 6300	Flumazenil	Ro 15-1788	Benzodiazepine		Antagonist		Benzodiazepine receptor antagonist
3261	F15	F 7927	FSCPX	8-Cyclopentyl-N3-[3-(4-(fluorosulfonyl)benzoyloxy)propyl]-N1-propylxanthine	Adenosine		Antagonist	A1	Irreversible A1 adenosine receptor antagonist
3261	F17	F 9677	Felodipine	Plendil	Ca2+ Channel		Blocker	L-type	L-type calcium channel blocker
3261	F19	G 0668	GW2974	N4-(1-Benzyl-1H-indazol-5-yl)-N6,N6-dimethyl-pyrido[3,4-d]pyrimidine-4,6-diamine	Phosphorylation	Enzyme	Inhibitor	EGFR / ErbB-2	Dual EGFR and ErbB-2 receptor tyrosine kinase inhibitor
3261	F21	G 6416	GW5074	3-(3, 5-Dibromo-4-hydroxybenzylidene-5-iodo-1,3-dihydro-indol-2-one)	Phosphorylation	Enzyme	Inhibitor	Raf1 kinase	cRaf1 kinase inhibitor
3261	H03	E 3256	Edrophonium chloride	Ethyl(m-hydroxyphenyl)dimethylammonium chloride	Cholinergic	Enzyme	Inhibitor	Acetylcholinesterase	Acetylcholinesterase inhibitor
3261	H05	E 4378	EGTA	Ethylene glycol-bis(2-aminoethylether)-N,N,N',N'-tetraacetic acid; Egtazic acid	Biochemistry	Enzyme	Inhibitor	Carboxypeptidase B	Carboxypeptidase B inhibitor; chelating agent useful for the determination of calcium in the presence of magnesium
3261	H07	E 9750	Estrone	Folliculin	Hormone			Estrogen	Luteolytic estrogen produced by the corpus luteum
3261	H09	PZ0012	Sunitinib malate	SU 011248, SU 11248, SU112248, N-[2-(Diethylamino)ethyl]-5-[(Z)-(5-fluoro-1,2-dihydro-2-oxo-3H-indol-3-ylidene)methyl]-2,4-dimethyl-1H-pyrrole-3-carboxamide (2S)-2-hydroxybutanedioic acid (1:1) salt	Tyrosine Kinase	Enzyme	Inhibitor		Sunitinib malate is a receptor tyrosine kinase inhibitor, which targets VEGF-R1, VEGF-R2, VEGF-R3, PDGF-Ra, PDGF-Rb, KIT, FLT3, CSF-1R, and RET. Sunitinib malate is an anticancer drug.
3261	H11	F 3764	Furegrelate sodium	5-(3-Pyridinylmethyl)benzofurancarboxylic acid sodium	Phosphorylation	Enzyme	Inhibitor	Thromboxane synthase	Thromboxane synthetase inhibitor
3261	H13	G4796	Genipin	Methyl (1S,2R,6S)-2-hydroxy-9-(hydroxymethyl)-3-oxabicyclo[4.3.0]nona-4,8-diene-5-carboxylate	Cell Biology		Modulator	UCP2	Stimulates insulin secretion in UCP2-dependent manner (Uncoupling protein 2). Genipin is a protein, collagen, gelatin, and chitosan cross-linker.
3261	H15	N 2538	NS8593 hydrochloride	N-[(1R)-1,2,3,4-Tetrahydro-1-naphthalenyl]-1H-benzimidazol-2-amine hydrochloride	Ca2+ Channel		Blocker	SK(Ca)	Blocks small conductance Ca2+ activated K+ channels
3261	H17	F-100	Fluspirilene	R 6218	Dopamine		Antagonist	D2/D1	Dopamine receptor antagonist; antipsychotic
3261	H19	G 1043	Guanfacine hydrochloride	N-(aminoiminomethyl)-2,6-dichlorobenzeneacetamide hydrochloride	Adrenoceptor		Agonist	alpha2	alpha2-Adrenoceptor agonist
3261	H21	G 6649	Genistein	5,7-Dihydroxy-3-(4-hydroxyphenyl)-4H-1-benzopyran-4-one	Phosphorylation	Enzyme	Inhibitor	Tyrosine kinase	Cytotoxic inhibitor of tyrosine kinase and topoisomerase II kinase
3261	J03	E 3263	Efaroxan hydrochloride	RX 821037A	Imidazoline		Antagonist	I1	I1 Imidazoline binding site antagonist
3261	J05	E 4642	(±)-Epinephrine hydrochloride	(±)-Adrenalin hydrochloride	Adrenoceptor		Agonist		Adrenoceptor agonist
3261	J07	P0111	Phenserine	(-)-N-Phenylcarbamoylseroline	Neurotransmission	Enzyme	Inhibitor	Acetylcholinesterase	Selective, non-competitive acetylcholinesterase (AChE) inhibitor.
3261	J09	F 0778	Felbamate	2-Phenyl-1,3-propanediol dicarbamate	Glutamate		Antagonist		Anticonvulsant; glutamate receptor antagonist
3261	J11	F 4303	Fiduxosin hydrochloride	(3-[4-((3alphaR,9betaR)-cis-9-methoxy-1,2,3,3a,4,9b-hexahydro-[1]-benzopyrano[3,4-c]pyrrol-2-yl)butyl]-8-phenyl-pyrazino-[2',3':4,5]thi-eno [3,2-d]pyrimidine-2,4(1H,3H)-dione) hydrochloride	Adrenoceptor		Antagonist	alpha 1	alpha1-Adrenoceptor antagonist
3261	J13	F 6513	Fusaric acid	5-Butyl-2-pyridinecarboxylic acid	Dopamine	Enzyme	Inhibitor	Dopamine beta-hydroxylase	Dopamine beta-hydroxylase inhibitor; antibiotic isolated from the fungus Fusarium heterosporium
3261	J15	F 8257	Flunarizine dihydrochloride	1-[bis(4-fluorophenyl)methyl]-4-(3-phenyl-2-propenyl)-piperazine dihydrochloride	Ion Pump		Blocker	Na+/Ca2+ channel	Ca2+/Na+ channel blocker; vasodilator

ICCB-L Plate	ICCB-L Well	Vendor ID	Compound Name	Sec Name	Class	Enzyme	Action	Selectivity	Description
3261	J17	F-114	cis-(Z)-Flupenthixol dihydrochloride	(Z)-4-[3-[2-(Trifluoromethyl)-9H-thioxanthen-9-ylidene]propyl]-1-piperazine-ethanol dihydrochloride	Dopamine		Antagonist		Dopamine receptor antagonist; antipsychotic
3261	J19	G 2128	L-Glutamic acid hydrochloride	S(+)-1-Aminopropane-1,3-dicarboxylic acid hydrochloride	Glutamate		Agonist		Endogenous excitatory amino acid neurotransmitter
3261	J21	G 6793	GW7647	2-(4-(2-(1-Cyclohexanebutyl)-3-cyclohexylureido)ethyl)phenylthio)-2-methylpropionic acid	Transcription		Agonist	PPAR-alpha	Potent agonist of peroxisome proliferator-activated alpha (PPAR-alpha)
3261	L03	E 3380	Ellipticine	5,11-Dimethyl-6H-pyrido[4,3-b]carbazole	Cell Cycle	Enzyme	Inhibitor	CYP1A1 / Topoll	Cytochrome P450 (CYP1A1)and DNA topoisomerase II inhibitor
3261	L05	E 7138	Ethosuximide	2-Ethyl-2-methylsuccinimide	Anticonvulsant				Inhibits voltage-gated sodium channels; used for the treatment of absence-type seizures
3261	L07	E-006	N-Methyl-beta-carboline-3-carboxamide	FG-7142	GABA		Antagonist	GABA-A	GABA-A receptor antagonist
3261	L09	F 0881	Fusidic acid sodium	Fusidin	Cell Cycle		Inhibitor		Inhibits protein synthesis in prokaryotes
3261	L11	F 4381	Furosemide		Ion Pump		Inhibitor	Na+, K+, Cl- cotransport	Inhibits Na+, K+ and Cl- cotransport
3261	L13	F 6627	5-Fluorouracil	5-FU	Cell Cycle	Enzyme	Inhibitor	Thymidylate synthetase	Thymidylate synthetase inhibitor; leads to accumulation of cells in S phase
3261	L15	F 8791	5-fluoro-5'-deoxyuridine	5'dFUrd	DNA Metabolism		Inhibitor		DNA synthesis inhibitor; antiproliferative
3261	L17	F-124	Furafylline	3-(2-Furanylmethyl)-3,7-dihydro-1,8-dimethyl-1H-purine-2,6-dione	Biochemistry	Enzyme	Inhibitor	P450IA2	Cytochrome P450IA2 inhibitor
3261	L19	G 2536	Ganciclovir		Cell Cycle		Inhibitor	G2-M checkpoint	Pro-drug nucleoside analog; upon thymidine kinase expression, converted to a phosphorylated active analog and incorporated into DNA, causing death of the malignant dividing cell
3261	L21	G 7788	alpha-Guanidinoglutaric acid	GGA	Nitric Oxide	Enzyme	Inhibitor	NOS	Endogenous convulsant; nitric oxide synthase (NOS) inhibitor
3261	N03	R0158	RepSox	E-616452; 2-[3-(6-Methyl-2-pyridinyl)-1H-pyrazol-4-yl]-1,5-naphthyridine	Neuroscience	Enzyme	Inhibitor		RepSox Inhibits TGF-beta receptor signaling. Retroviral transduction of Sox2, Oct4, and Klf4 genes results in direct reprogramming of somatic cells into induced pluripotent stem cells (iPSCs). RepSox Inhibits TGF-beta receptor signaling. Retrovira...
3261	N05	J4774	JX401	1-[2-Methoxy-4-(methylthio)benzoyl]-4-benzylpiperidine	Phosphorylation	Enzyme	Inhibitor	p38a MAPK	Potent, non-cytotoxic, membrane permeable p38a MAPK inhibitor.
3261	N07	D7443	DPO-1	Diphenyl phosphine oxide-1	K+ Channel		Blocker	Ikur and Kv1.5	Blocker of the IKur ultrarapid delayed rectifier current and Kv1.5 potassium channel.
3261	N09	F 1016	Fenoterol hydrobromide	2-(3,5-Dihydroxyphenyl)-2-hydroxy-2'-(4-hydroxyphenyl)-1'-methyl-diethylamine hydrobromide	Adrenoceptor		Agonist	beta2	Beta2-adrenoceptor agonist; bronchodilator
3261	N11	F 4646	p-Fluoro-L-phenylalanine	4-Fluoro-L-phenylalanine	Neurotransmission	Enzyme	Substrate	Tyrosine Hydroxylase	Substrate for tyrosine hydroxylase; arrests cells at G2
3261	N13	E 7906	Esomeprazole magnesium dihydrate	(S)-Omeprazole magnesium dihydrate, Nexium dihydrate, (T-4)-Bis[6-methoxy-2-[(S)-[(4-methoxy-3,5-dimethyl-2-pyridinyl)methyl]sulfinyl-?O]-1H-benzimidazolato-?N3]-Magnesium dihydrate	Ion Channel		Inhibitor		Esomeprazole magnesium dihydrate is a leading proton pump inhibitor.
3261	N15	F 8927	Flupirtine maleate	2-amino-6-[[[4-fluorophenyl)methyl]amino]-3-pyridinyl]-carbamic acid, ethyl ester maleate	Glutamate		Antagonist	NMDA	NMDA glutamate receptor antagonist; centrally acting analgesic
3261	N17	F-131	FPL 64176	2,5-Dimethyl-4-[2-(phenylmethyl)benzoyl]-1H-pyrrole-3-carboxylic acid methyl ester	Ca2+ Channel		Activator	L-type	Potent L-type Ca2+ channel activator
3261	N19	G 3126	L-Glutamine	S(+)-Glutamic acid 5-amide	Glutamate		Agonist		Excitatory amino acid
3261	N21	G 8134	Gallamine triethiodide		Cholinergic		Antagonist	M2	M2 muscarinic acetylcholine receptor antagonist; muscle relaxant
3261	P03	G 9797	GW9508	4-(3-Phenoxybenzylamino)phenylpropionic acid	Lipids		Agonist	FFA1/GPR40	GW9508 is a selective FFA1/GPR40 agonist
3261	P05	E 7881	Emodin		Phosphorylation	Enzyme	Inhibitor	p56lck TK	p56lck Tyrosine kinase inhibitor
3261	P07	E-100	(-)-Eseroline fumarate		Cholinergic	Enzyme	Inhibitor	Cholinesterase	Metabolite of physostigmine (eserine); potent analgesic; cholinesterase inhibitor
3261	P09	F 1553	S-(+)-Fluoxetine hydrochloride		Serotonin		Inhibitor	Reuptake	Selective serotonin reuptake inhibitor

ICCB-L Plate	ICCB-L Well	Vendor ID	Compound Name	Sec Name	Class	Enzyme	Action	Selectivity	Description
3261	P11	F 4765	Fluphenazine dihydrochloride		Dopamine		Antagonist	D1/D2	Dopamine receptor antagonist; antipsychotic
3261	P13	F 6800	Fenoldopam bromide	SKF-82526	Dopamine		Agonist	D1	Peripheral D1 dopamine receptor agonist
3261	P15	F 9397	Flutamide	2-Methyl-N-(4-nitro-3-(trifluoromethyl)phenyl)propanamide	Hormone		Inhibitor	Androgen	Non-steroidal anti-androgen
3261	P17	F-132	Fluoxetine hydrochloride	Prozac; LY-110,140 hydrochloride	Serotonin		Inhibitor	Reuptake	Selective serotonin reuptake inhibitor
3261	P19	G 3416	Guanidinylnaltrindole di-trifluoroacetate	GNTI di-trifluoroacetate	Opioid		Antagonist	kappa	Selective kappa opioid receptor antagonist
3261	P21	G 9659	GBR-12935 dihydrochloride	1-[2-(Diphenylmethoxy)ethyl]-4-(3-phenylpropyl)-piperazine dihydrochloride	Dopamine		Inhibitor	Reuptake	Dopamine reuptake inhibitor
3261	B04	G-002	Isoguvacine hydrochloride	1,2,3,6-Tetrahydro-4-pyridinecarboxylic acid hydrochloride	GABA		Agonist	GABA-A, GABA-C	GABA-A receptor agonist
3261	B06	P0099	Paliperidone	3-[2-[4-(6-Fluoro-1,2-benzisoxazol-3-yl)-1-piperidinyl]ethyl]-6,7,8,9-tetrahydro-9-hydroxy-2-methyl-4H-pyrido[1,2-a]pyrimidin-4-one	Neurotransmission		Antipsychotic		Atypical antipsychotic; active metabolite of risperidone.
3261	B08	H 1377	MHPG piperazine	MOPEG piperazine	Adrenoceptor		Metabolite		Norepinephrine metabolite
3261	B10	H 2775	DL-threo-beta-hydroxyaspartic acid	threo-2-Amino-3-hydroxysuccinic acid	Glutamate		Inhibitor	Transport	Glutamate transport inhibitor
3261	B12	H 5752	17alpha-hydroxyprogesterone	17alpha-Hydroxy-4-pregnene-3,20-dione	Hormone		Metabolite	Progesterone	Metabolite of progesterone
3261	B14	H 8125	L-Histidine hydrochloride	S(+)-alpha-Amino-1H-imidazole-4-propanoic acid hydrochloride	Histamine		Precursor		Histamine precursor
3261	B16	H 9002	L-Hyoscyamine	[3(S)-endo]-alpha-(Hydroxymethyl)benzeneacetic acid 8-methyl-8-azabicyclo[3.2.1]oct-3-yl ester	Cholinergic		Antagonist		Competitive antagonist at post-ganglionic synapses and on smooth muscle
3261	B18	H 9882	4-Hydroxybenzhydrazide	4-Hydroxybenzoylhydrazine	Biochemistry	Enzyme	Inhibitor		Phenylalanine ammonia-lyase inhibitor; used to measure reducing sugar levels
3261	B20	H-168	R-(+)-7-Hydroxy-DPAT hydrobromide	R-(+)-7-Hydroxy-dipropylaminotetralin hydrobromide	Dopamine		Agonist	D3	Selective D3 dopamine receptor agonist; active enantiomer of (±)-7-hydroxy-DPAT
3261	B22	I 1149	Iodoacetamide		Biochemistry	Enzyme	Inhibitor		Alkylating reagent for cysteine and histidine residues in proteins; irreversible protein inhibitor
3261	D04	G-007	Guvacine hydrochloride		GABA		Inhibitor	Uptake	GABA uptake inhibitor
3261	D06	G-133	GR-89696 fumarate	4-[(3,4-Dichlorophenyl)acetyl]-3-(1-pyrrolidinylmethyl)-1-piperazinecarboxylic acid methyl ester fumarate	Opioid		Agonist	kappa	kappa Opioid receptor agonist
3261	D08	H 1384	Hypotaurine	2-Aminoethanesulfonic acid	Cell Stress		Inhibitor	Antioxidant	Antioxidant that binds hydroxyl radicals; GABA transport inhibitor
3261	D10	H 3132	Ciproxifan hydrochloride	Cyclopropyl[4-[3-(1H-imidazol-4-yl)propoxy]phenyl]-methanone hydrochloride	Histamine		Antagonist	H3	H3 histamine receptor antagonist
3261	D12	H 6036	1,3,5-tris(4-hydroxyphenyl)-4-propyl-1H-pyrazole	PPT	Hormone		Agonist	ER-alpha	Specific estrogen receptor alpha (ERalpha) agonist
3261	D14	H 8250	(±)-8-Hydroxy-DPAT hydrobromide	(±)-8-Hydroxy-dipropylaminotetralin hydrobromide	Serotonin		Agonist	5-HT1A	Selective 5-HT1A serotonin receptor agonist
3261	D16	H 9003	Hydroquinone	1,4-Benzenediol	Leukotriene	Enzyme	Inhibitor	Arachidonate 12-Lipoxygenase	Arachidonate 12-Lipoxygenase inhibitor
3261	D18	H-108	Hemicholinium-3		Cholinergic		Blocker	Uptake	Potent and selective choline uptake blocker
3261	D20	S0323	Sematilide monohydrochloride monohydrate	N-[2-(Diethylamino)ethyl]-4'-[(methylsulfonyl)amino]benzamide monohydrochloride monohydrate	K+ Channel Modulator		Blocker	Kir	Sematilide monohydrochloride monohydrate is a class III antiarrhythmic; selective delayed rectifier K+ current (IKr) channel blocker.
3261	D22	I 1392	HA-100	1-(5-Isoquinolinesulfonyl)piperazine hydrochloride	Phosphorylation	Enzyme	Inhibitor	PKA / PKC / MLCK	Inhibitor of protein kinase A (PKA), protein kinase C (PKC) and myosin light chain kinase (MLCK)
3261	F04	G-017	(±)-AMPA hydrobromide	(±)-alpha-Amino-3-hydroxy-5-methylisoxazole-4-propionic acid hydrobromide	Glutamate		Agonist	AMPA/kainate	Potent excitatory amino acid that interacts selectively with central AMPA/kainate glutamate receptors
3261	F06	G-154	Gabapentin	1-(Aminomethyl)-cyclohexaneacetic acid	Anticonvulsant				Anticonvulsant that may modulate certain types of Ca2+ channel currents; analgesic
3261	F08	H 1512	Haloperidol		Dopamine		Antagonist	D2/D1	Dopamine receptor antagonist; antipsychotic
3261	F10	H 3146	Hydroxytacrine maleate	HP-029	Cholinergic	Enzyme	Inhibitor	Cholinesterase	Cholinesterase inhibitor
3261	F12	H 6892	1-(4-Hydroxybenzyl)imidazole-2-thiol		Dopamine	Enzyme	Inhibitor	Dopamine beta-hydroxylase	Dopamine beta-hydroxylase inhibitor
3261	F14	H 8502	Dopamine hydrochloride	3-Hydroxytyramine hydrochloride	Dopamine		Agonist		Endogenous neurotransmitter

ICCB-L Plate	ICCB-L Well	Vendor ID	Compound Name	Sec Name	Class	Enzyme	Action	Selectivity	Description
3261	F16	B 8433	BU99006	2-(Imidazolin-2-yl)-5-isothiocyanatobenzofuran	Imidazoline		Ligand	I2	Irreversible I2 imidazoline binding site ligand.
3261	F18	B 8312	BNTX maleate salt hydrate	7(E)-Benzylidenenaltrexone maleate salt hydrate, BNTX-7 maleate salt hydrate, Morphinan-6-one, 17-(cyclopropylmethyl)-4,5-epoxy-3,14-dihydroxy-7-(phenylmethylene)-, (5a,7E)-maleate salt hydrate	Opioids		Antagonist	d1	BNTX is a selective d1 non peptide opioid receptor antagonist. BNTX is used as a tool for the study of various function of opioid receptors including alcohol and drug dependence
3261	F20	A 7845	ATPO	(R,S)-2-Amino-3-[5-tert-butyl-3-(phosphonomethoxy)-4-isoxazolyl]propionic acid	Glutamate		antagonist	AMPA	Competitive antagonist at GluR1-4 (AMPA-preferring) receptors
3261	F22	I 1637	Ipratropium bromide	Atropine isopropyl bromide	Cholinergic		Antagonist	Muscarinic	Muscarinic acetylcholine receptor antagonist; bronchodilator
3261	H04	G-019	Muscimol hydrobromide	3-Hydroxy-5-aminomethylisoxazole hydrobromide	GABA		Agonist	GABA-A, GABA-C	GABA-A receptor agonist, water soluble
3261	H06	H 0126	DL-Homatropine hydrobromide	Tropine mandelate hydrobromide	Cholinergic		Antagonist	Muscarinic	Muscarinic acetylcholine receptor antagonist
3261	H08	H 1753	Hydralazine hydrochloride	1-Hydrazinophthalazine hydrochloride	Neurotransmission	Enzyme	Inhibitor	MAO-A/B	Non-selective MAO-A/B inhibitor; antihypertensive
3261	H10	H 4001	Hydrocortisone	Cortisol	Hormone			Cortisol	Primary glucocorticoid secreted by the adrenal cortex
3261	H12	H 7250	Histamine dihydrochloride	1H-Imidazole-4-ethanamine dihydrochloride	Histamine		Agonist		Endogenous neurotransmitter
3261	H14	H 8627	Hydroxyurea		DNA Metabolism	Enzyme	Inhibitor	Ribonucleoside reductase	Antineoplastic; inactivates ribonucleoside reductase which blocks the synthesis of deoxynucleotides
3261	H16	M 7445	MNS	3,4-Methylenedioxy-beta-nitrostyrene	Phosphorylation	Enzyme	Inhibitor	Src/Syk	Src and Syk kinase inhibitor; prevents phosphorylation and cytoskeletal association of GPIIb/IIIa and talin.
3261	H18	M 7320	N-Methylhistaprodifen dioxalate salt	N-Methyl-2-[2-(3,3-diphenylpropyl)-1H-imidazol-4-yl]-ethanamine dioxalate salt	Histamine		Agonist	H1	H1 histamine receptor agonist.
3261	H20	I 0157	Ibudilast	KC-404	Cyclic Nucleotides	Enzyme	Inhibitor	PDE IV	Phosphodiesterase IV (PDE IV) inhibitor
3261	H22	I 1656	Idarubicin	Idamycin	DNA Metabolism		Inhibitor		Antineoplastic
3261	J04	G-110	Guanabenz acetate	WY-8678	Adrenoceptor		Agonist	alpha2	Centrally acting alpha2 adrenoceptor agonist; antihypertensive
3261	J06	H 0131	(±)-Vanillylmandelic acid	(±)-4-Hydroxy-3-methoxymandelic acid	Adrenoceptor		Metabolite		Metabolite of epinephrine
3261	J08	H 1877	4-Imidazolemethanol hydrochloride	4-(Hydroxymethyl)imidazole hydrochloride	Histamine	Enzyme	Inhibitor	Histinol Dehydrogenase	Histinol dehydrogenase inhibitor
3261	J10	L 4408	Lithium Chloride		Neurotransmission	Enzyme	Inhibitor	Inositol monophosphatase	Anti-manic drug used in the treatment of bipolar depression; inhibitor of inositol monophosphatase
3261	J12	H 7258	Harmaline	Aribine	Imidazoline		Agonist	I1	I1 imidazoline binding site agonist
3261	J14	H 8645	(+)-Hydrastine	(+)-beta-Hydrastine 1(S),9(R)	GABA		Antagonist	GABA-A	Potent competitive GABA-A receptor antagonist which is more potent than bicuculline; isolated from Corydalis stricta
3261	J16	H 9523	Serotonin hydrochloride	5-HT hydrochloride	Serotonin		Agonist		Endogenous neurotransmitter
3261	J18	H-127	Hexahydro-sila-difenidol hydrochloride, p-fluoro analog	p-F-HHSiD hydrochloride	Cholinergic		Antagonist	M3>M1>M2	High affinity muscarinic acetylcholine receptor antagonist, but displays altered selectivity (M3 > M1 > M2)
3261	J20	I 0375	Imidazole-4-acetic acid hydrochloride	I4AA	GABA		Antagonist	GABA-C	Competitive antagonist at GABA-C receptors
3261	J22	M 1195	Metolazone	7-Chloro-1,2,3,4-tetrahydro-2-methyl-3-(2-methylphenyl)-4-oxo-6-quinazolinesulfonamide	Na+ Channel		Inhibitor	Na+/Cl- cotransporter	Inhibitor of thiazide-sensitive Na+/Cl- cotransporter; antihypertensive; moderate loop diuretic.
3261	L04	J4829	JFD00244	1,4-Bis[(p-hydroxyphenethyl)amino]anthraquinone	Gene Regulation	Enzyme	Inhibitor	SIRT	A SIRT (sirtuin, human silent information regulator) inhibitor.
3261	L06	H 0627	6-Hydroxymelatonin	3-(N-Acetylaminoethyl)-6-hydroxy-5-methoxyindole	Melatonin		Metabolite		Melatonin metabolite with agonist activity
3261	L08	H 2138	Hexamethonium dichloride	N,N,N,N',N',N'-Hexamethyl-1,6-hexanediaminium dichloride	Cholinergic		Antagonist	Nicotinic	Nicotinic acetylcholine receptor antagonist
3261	L10	H 4759	Hydrochlorothiazide	6-Chloro-3,4-dihydro-2H-1,2,4-benzothiadiazine-7-sulfonamide 1,1-dioxide	Biochemistry	Enzyme	Inhibitor	Carbonic anhydrase	Carbonic anhydrase inhibitor; diuretic
3261	L12	J 4137	JS-K	O2-(2,4-Dinitrophenyl) 1-[(4-ethoxycarbonyl)piperazin-1-yl]diazene-1-ium-1,2-diolate	Nitric Oxide		Donor		Nitric oxide donor; antiproliferative
3261	L14	H 8653	(±)-7-Hydroxy-DPAT hydrobromide	(±)-7-OH-DPAT HBr; (±)-Hydroxy-dipropylaminotetraol hydrobromide	Dopamine		Agonist	D3	Selective D3 dopamine receptor agonist

ICCB-L Plate	ICCB-L Well	Vendor ID	Compound Name	Sec Name	Class	Enzyme	Action	Selectivity	Description
3261	L16	L 2167	L-165,041	4-[3-(4-Acetyl-3-hydroxy-2-propylphenoxy)propoxy]phenoxyacetic acid	Lipid Signaling		Agonist	PPAR-gamma	Peroxisome proliferator-activated receptor (PPAR) gamma agonist.
3261	L18	H-128	Histamine, R(-)-alpha-methyl-, dihydrochloride	R(-)-alpha-Methylhistamine dihydrochloride	Histamine		Agonist	H3	Potent, selective H3 histamine receptor agonist which crosses the blood-brain barrier; inhibits histamine synthesis and release
3261	L20	C 3118	CPNQ	5-[4-(4-Chlorobenzoyl)-1-piperazinyl]-8-nitroquinoline	Neurotransmission		Neuroprotectant		Prevents huntingtin-mediated proteasome dysfunction and reduces alpha-synuclein-mediated toxicity; promotes inclusion formation in cellular models of Huntington's and Parkinson's disease.
3261	L22	G 0419	GR 55562 dihydrobromide	3-[3-(Dimethylamino)propyl]-4-hydroxy-N-[4-(4-pyridinyl)phenyl]benzamide dihydrobromide	Serotonin		Antagonist	5-HT1B/1D	Selective 5-HT1B/1D serotonin receptor antagonist.
3261	N04	G-117	Glipizide		K+ Channel		Blocker	ATP-sensitive	ATP-dependent K+ channel blocker
3261	N06	H 0879	Hexamethonium bromide	Hexane-1,6-bis(trimethylammonium bromide)	Cholinergic		Antagonist	Nicotinic	Blocks nicotinic acetylcholine receptors at autonomic ganglia
3261	N08	B 5437	Bendamustine hydrochloride	Treanda, 1H-Benzimidazole-2-butanolic acid, 5-[bis(2-chloroethyl)amino]-1-methyl monohydrochloride	Apoptosis				DNA-alkylator with a distinct pattern of activity. Bendamustine activates DNA-damage stress response and apoptosis; inhibits mitotic checkpoints; and induces mitotic catastrophe. DNA-alkylator with a distinct pattern of activity. Bendamustine activ...
3261	N10	S 8817	SB 218795	(-)-(R)-N-(alpha-methoxycarbonylbenzyl)-2-phenylquinoline-4-carboxamide	Neurotransmission		Antagonist	NK3	Non-peptide NK3 tachykinin receptor antagonist.
3261	N12	H 7779	Retinoic acid p-hydroxyanilide	N-(4-Hydroxyphenyl)retinamide	Cell Cycle		Inhibitor		Vitamin A acid analog with antiproliferative activity in cultured human breast cancer cells
3261	N14	H 8759	MHPG sulfate potassium	4-Hydroxy-3-methoxyphenylglycol-4-sulfate potassium	Adrenoceptor		Metabolite		Norepinephrine metabolite
3261	N16	H 9772	5-Hydroxy-L-tryptophan	S(+)-1-alpha-Amino-5-hydroxyindole-3-propionic acid	Serotonin		Precursor		Serotonin precursor; antidepressant; anti-epileptic
3261	N18	H-135	5-hydroxydecanoic acid sodium		K+ Channel		Blocker		Blocks post ischemic actions of the K+ channel activator cromakalim
3261	N20	N 1786	NSC 95397	2,3-bis[(2-Hydroxyethyl)thio]-1,4-naphthoquinone	Phosphorylation	Enzyme	Inhibitor	Cdc25	Selective, irreversible Cdc25 dual specificity phosphatase inhibitor.
3261	N22	I 2279	IMID-4F hydrochloride	2-[N-(2,6-dichlorophenyl)-N-(4-fluorobenzyl)amino]-2-imidazoline hydrochloride	K+ Channel		Blocker		Imidazoline-based K(ATP) channel blocker
3261	P04	G-119	GYKI 52466 hydrochloride	1-(4-Aminophenyl)-4-methyl-7,8-methylenedioxy-5H-2,3-benzodiazepine hydrochloride	Glutamate		Antagonist	AMPA/kainate	Selective AMPA/kainate glutamate receptor antagonist; anticonvulsant; skeletal muscle relaxant
3261	P06	H 1252	4-Hydroxy-3-methoxyphenylacetic acid	Homovanillic acid; HVA	Dopamine		Metabolite		Dopamine metabolite
3261	P08	H 2380	6-Hydroxy-DL-DOPA	2,5-Dihydroxy-DL-tyrosine	Adrenoceptor		Neurotoxin		Precursor of the catecholaminergic neurotoxin, 6-hydroxydopamine; converted to 6-hydroxydopamine by L-aromatic amino acid decarboxylase
3261	P10	H 5257	Hispidin	6-(3,4-dihydroxystyryl)-4-hydroxy-2-pyrone	Phosphorylation	Enzyme	Inhibitor	PKC-beta	Potent protein kinase C-beta inhibitor
3261	P12	PZ0013	Nelfinavir mesylate hydrate	AG-1343, Nelfinavir methanesulfonate hydrate, 3S,4aS,8aS)-N-(1,1-Dimethylethyl)decahydro-2-[(2R,3R)-2-hydroxy-3-[(3-hydroxy-2-methylbenzoyl)amino]-4-(phenylthio)butyl]-3-isoquinolinecarboxamide methanesulfonate	Immune Signaling	Enzyme	Inhibitor	HIV protease	Nelfinavir is a HIV protease inhibitor; antiretroviral; and anti-tumor agent
3261	P14	H 8876	5-Hydroxyindolacetic acid	5-HIAA	Serotonin		Metabolite		Serotonin metabolite
3261	P16	H 9876	Hydroxylamine hydrochloride		Neurotransmission	Enzyme	Inhibitor	MAO	Monoamine oxidase inhibitor
3261	P18	H-140	R-(+)-8-Hydroxy-DPAT hydrobromide	(+)-8-Hydroxy-2-(dipropylamino)tetralin hydrobromide	Serotonin		Agonist	5-HT1A	Full 5-HT1A serotonin receptor agonist; active enantiomer of (±)-8-hydroxy-DPAT
3261	P20	I 0782	Imazodan	CI 914	Cyclic Nucleotides	Enzyme	Inhibitor	PDE II	Selective phosphodiesterase II (PDEII) inhibitor
3261	P22	I 2760	R(-)-Isoproterenol (+)-bitartrate		Adrenoceptor		Agonist	beta	Sympathomimetic amine acting almost exclusively on beta adrenoceptors; bronchodilator; active enantiomer of Isoproterenol

ICCB-L Plate	ICCB-L Well	Vendor ID	Compound Name	Sec Name	Class	Enzyme	Action	Selectivity	Description
3262	A03	I 2764	ML-7	1-(5-Iodonaphthalene-1-sulfonyl)-1H-hexahydro-1,4-diazepine hydrochloride	Phosphorylation	Enzyme	Inhibitor	MLCK	Selective myosin light chain kinase (MLCK) inhibitor
3262	A05	I 5879	3-Isobutyl-1-methylxanthine	IBMX	Adenosine	Enzyme	Inhibitor	Phosphodiesterase	Potent phosphodiesterase inhibitor; more active than theophylline at adenosine receptors
3262	A07	I 7627	Iproniazid phosphate		Neurotransmission	Enzyme	Inhibitor	MAO	Monoamine oxidase inhibitor
3262	A09	I 9890	m-Iodobenzylguanidine hemisulfate	MIBG	Apoptosis		Activator		Antitumor agent which inhibits ADP ribosylation; induces changes in the mitochondrial membrane potential, activation of caspase-3 and DNA fragmentation
3262	A11	I-135	Imetit dihydrobromide	S-[2-(Imidazol-4-yl)ethyl]isothiurea dihydrochloride	Histamine		Agonist	H3	Potent and selective H3 histamine receptor agonist
3262	A13	J-102	JL-18	8-Methyl-6-(4-methyl-1-piperazinyl)-11H-pyrido[2,3-b][1,4]benzodiazepine	Dopamine		Antagonist	D4>D2	Clozapine analog which is 25 fold selective for the D4 dopamine receptor versus the D2 dopamine receptor
3262	A15	K 3888	Kenpaullone	NSC 664704	Phosphorylation	Enzyme	Inhibitor	CDK1, CDK2, CDK5	Potent inhibitor of CDK1/cyclin B, CDK2/cyclin A, CDK2/cyclin E, and CDK5/p25
3262	A17	L 2411	LY-367,265	1-[2-[4-(6-fluoro-1H-indol-3-yl)-3,6-dihydro-1(2H)-pyridinyl]ethyl]-5,6-dihydro-1H,4H-[1,2,5]thiadiazolo[4.3.2-ij]quinoline-2,2-dioxide	Serotonin		Antagonist	Reuptake	Inhibits serotonin reuptake; 5-HT2A serotonin receptor antagonist
3262	A19	L 5025	Leflunomide	5-Methylisoxazole-4-(4-trifluoromethylcarboxanilide)	Immune System	Enzyme	Inhibitor		Immunosuppressive; its metabolite, a malononitrile derivative, inhibits dihydroorotate dehydrogenase (in the de novo pyrimidine synthesis pathway) and several protein tyrosine kinases
3262	A21	PZ0100	CP-154526 hydrochloride	N-Butyl-N-ethyl-2,5-dimethyl-7-(2,4,6-trimethylphenyl)-7H-pyrrolo[2,3-d]pyrimidin-4-amine monohydrochloride	Neurotransmission		Antagonist	CRF1	CP-154526 is a selective, non-peptide antagonist of corticotropin releasing factor receptors (CRF1).
3262	C03	I 2765	(±)-Ibotenic acid	(±)-alpha-Amino-3-hydroxy-5-isoxazoleacetic acid	Glutamate		Agonist	NMDA	Potent NMDA/metabotropic glutamate receptor agonist; excitotoxin; originally isolated from Amanita pantherina and Amanita muscaria
3262	C05	I 6138	Idazoxan hydrochloride	RX 781094	Imidazoline		Ligand	I1 / I2	I2-imidazoline agonist; I1-imidazoline antagonist; alpha2-Adrenergic antagonist
3262	C07	I 8005	S(+)-Isoproterenol (+)-bitartrate		Adrenoceptor			beta	Sympathomimetic amine acting almost exclusively on beta adrenoceptors; bronchodilator; less active enantiomer of Isoproterenol
3262	C09	I-106	S(+)-Ibuprofen	S-(+)-2-(4-Isobutylphenyl)propionic acid	Prostaglandin	Enzyme	Inhibitor	COX	Active enantiomer of Ibuprofen; NSAID
3262	C11	I-138	1,5-Isoquinolinediol	1,5-Dihydroxyisoquinoline	Apoptosis	Enzyme	Inhibitor	PARS	Potent inhibitor of Poly(ADP-ribose) synthetase which is activated by nitric oxide; neuroprotective agent
3262	C13	K 0250	Kainic acid	2-Carboxy-3-carboxymethyl-4-isopropenylpyrrolidine	Glutamate		Agonist	Kainate	Excitatory amino acid receptor agonist selective for the kainate glutamate receptor subtype; conformationally restricted analog of L-glutamic acid
3262	C15	U 6881	U-73343	1-[6-(((17β)-3-Methoxyestra-1,3,5[10]-trien-17-yl)amino)hexyl]-2,5-pyrrolidinedione	G-protein			PLC	Inactive analog of U73122 (Rack 16, Well D06)
3262	C17	L 2536	LY-310,762 hydrochloride		Serotonin		Antagonist	5-HT1D	Potent, selective 5-HT 1D serotonin receptor antagonist.
3262	C19	V 1889	VER-3323 hemifumarate salt	(S)-1-(6-Bromo-2,3-dihydroindol-1-yl)-2-propylamine hemifumarate salt	Serotonin		Agonist	5-HT2C/5-HT2B	5-HT2C/5-HT2B serotonin receptor agonist.
3262	C21	N 0287	NNC 55-0396	(1S,2S)-2-(2-(N-[(3-Benzimidazol-2-yl)propyl]-N-methylamino)ethyl)-6-fluoro-1,2,3,4-tetrahydro-1-isopropyl-2-naphthyl cyclopropanecarboxylate dihydrochloride	Ca2+ Channel		Inhibitor	T-type	Selective T-type calcium channel inhibitor.
3262	E03	I 2892	Ifenprodil tartrate	alpha-(4-Hydroxyphenyl)-beta-(4-benzylpiperidin-1-yl)-beta-methylethanol tartrate	Glutamate		Blocker	Polyamine site NMDA	Blocks the polyamine binding site associated with the NMDA glutamate receptor; neuroprotective
3262	E05	I 6391	1-(5-Isoquinolinesulfonyl)-3-methylpiperazine dihydrochloride	Iso-H-7	Phosphorylation	Enzyme	Inhibitor	PKC	Protein kinase C (PKC) inhibitor
3262	E07	I 8021	L-N6-(1-Iminoethyl)lysine hydrochloride	L-NIL	Nitric Oxide	Enzyme	Inhibitor	iNOS	Selective inducible nitric oxide synthase (iNOS) inhibitor.
3262	E09	I-114	p-Iodoclonidine hydrochloride	2-[(2,6-Dichloro-4-iodophenyl)imino]imidazoline hydrochloride	Adrenoceptor		Agonist	alpha2	High affinity alpha2 adrenoceptor agonist

ICCB-L Plate	ICCB-L Well	Vendor ID	Compound Name	Sec Name	Class	Enzyme	Action	Selectivity	Description
3262	E11	M 1818	Molindone hydrochloride	3-Ethyl-1,5,6,7-tetrahydro-2-methyl-5-(4-morpholinylmethyl)-4H-indol-4-one hydrochloride	Dopamine		Antagonist	D2	D2 dopamine receptor antagonist; monoamine oxidase inhibitor
3262	E13	K 1003	Ketoconazole	cis-1-Acetyl-4-[4-[[2-(2,4-dichlorophenyl)-2-(1H-imidazol-1-ylmethyl)-1,3-dioxolan-4-yl]methoxy]phenyl]-piperazine	Multi-Drug Resistance	Enzyme	Inhibitor	Cytochrome P450c17	Potent inhibitor of cytochrome P450c17 enzyme; antifungal agent
3262	E15	L 0258	L-701,324	7-Chloro-4-hydroxy-3-(3-phenoxy)phenylquinolin-2[1H]-one	Glutamate		Antagonist	NMDA-Glycine	Selective antagonist at the glycine site of the NMDA glutamate receptor
3262	E17	O 0257	Olvanil	N-Vannilyloleoylamide	Neurotransmission		Agonist	Vanilloid receptor	Vanilloid receptor agonist
3262	E19	L 5647	Lidocaine hydrochloride		Na+ Channel		Modulator		Anti-arrhythmic; local anesthetic
3262	E21	R 0529	Ro 90-7501	2'-(4-Aminophenyl)-[2,5'-bi-1H-benzimidazol]-5-amine	Neurodegeneration		Inhibitor	amyloid beta42 fibril formation	Inhibits amyloid beta42 (Abeta42) fibril formation.
3262	G03	I 3639	Isotharine mesylate	4-[1-Hydroxy-2-[(1-methylethylamino)butyl]-1,2-benzenediol mesylate	Adrenoceptor		Agonist	beta	beta-Adrenoceptor agonist; bronchodilator
3262	G05	I 6504	(-)-Isoproterenol hydrochloride	(-)-Isoprenaline hydrochloride	Adrenoceptor		Agonist	beta	beta-Adrenoceptor agonist; increases cytosolic cAMP
3262	G07	I 8250	3-Iodo-L-tyrosine	S(-)-3-Iodo-4-hydroxyphenylalanine	Neurotransmission	Enzyme	Inhibitor	Tyrosine hydroxylase	Tyrosine hydroxylase inhibitor
3262	G09	I-117	R(+)-IAA-94	R(+)-Methylindazone; Indanyloxyacetic acid 94	Cl- Channel		Inhibitor		Potent Cl- channel inhibitor
3262	G11	I-146	IB-MECA	1-Deoxy-1-[6-[[[3-iodophenyl)methyl]amino]-9H-purin-9-yl]-N-methyl-beta-D-ribofuranuronamide	Adenosine		Agonist	A3	Selective A3 adenosine receptor agonist
3262	G13	K 1136	Ketorolac tris salt	Toradol	Prostaglandin	Enzyme	Inhibitor	COX	Non-steroidal anti-inflammatory (NSAID) drug
3262	G15	L 0664	Ioxoprofen	Koloxo	Prostaglandin	Enzyme	Inhibitor	COX	Non-steroidal anti-inflammatory (NSAID) drug; analgesic
3262	G17	L 2906	Lomefloxacin hydrochloride		Antibiotic	Enzyme	Inhibitor	DNA Gyrase	DNA gyrase inhibitor
3262	G19	L 5783	Lidocaine N-ethyl bromide quaternary salt	QX-314	Na+ Channel		Antagonist		Quaternary lidocaine derivative which blocks both fast, Na+-dependent action potentials and voltage-dependent, non-inactivating Na+ conductance
3262	G21	L 9664	Loratadine	4-(8-chloro-5,6-dihydro-11H-benzo[5,6]cyclohepta[1,2-b]pyridin-11-ylidene-1-piperidinecarboxylic acid ethyl ester	Histamine		Antagonist	H1	H1 Histamine receptor antagonist
3262	I03	I 3766	Isoliquritigenin	2',4,4'-Trihydroxychalcone	Cyclic Nucleotides	Enzyme	Activator	Guanylyl cyclase	Soluble guanylyl cyclase activator and aldose reductase inhibitor
3262	I05	I 7016	1-(5-Isouquinolylsulfonyl)-2-methylpiperazine dihydrochloride	H-7 dihydrochloride	Phosphorylation	Enzyme	Inhibitor	PKA / PKC	Inhibitor of cyclic nucleotide dependent protein kinase (PKA) and protein kinase C (PKC)
3262	I07	C1618	Cibenzoline succinate	2-(2,2-diphenylcyclopropyl)-4,5-dihydro-1H-imidazole succinate	K+ Channels		Blocker	ATP-sensitive	Blocks ATP-sensitive K channels in heart and pancreatic cells; class IA antiarrhythmic drug.
3262	I09	I-119	Indatraline hydrochloride	Lu 19-005	Dopamine		Inhibitor	Reuptake	Potent inhibitor of dopamine, norepinephrine and serotonin reuptake
3262	I11	A0606	Aurothioglucose	1-Thio-D-glucopyranose gold salt	Phosphorylation	Enzyme	Inhibitor	rac1	Potent PKC iota - Par6 interaction inhibitor; Disrupts a rac1 signaling pathway required for growth of a cancer cell line.
3262	I13	K 1751	Ketoprofen	2-(3-Benzoylphenyl)propionic acid	Prostaglandin	Enzyme	Inhibitor	COX-1	COX-1 selective non-steroidal anti-inflammatory (NSAID) drug
3262	I15	L 1011	Labetalol hydrochloride	2-Hydroxy-5-(1-hydroxy-2-[(1-methyl-3-phenylpropyl)amino]ethyl)benzamide hydrochloride	Adrenoceptor		Antagonist	beta	Competitive beta-adrenoceptor antagonist
3262	I17	L 3791	Lamotrigine	GI 267119X; 6-(2,3-dichlorophenyl)-1,2,4-triazine-3,5-diamine	Anticonvulsant				Anticonvulsant
3262	I19	A 6664	4-Amidinophenylmethanesulfonyl fluoride hydrochloride	4-Amidinobenzylsulfonyl fluoride hydrochloride, p-APMSF	Biochemistry	Enzyme	Inhibitor	Serine protease	Irreversible inhibitor of serine proteases with lysine or arginine substrate specificities
3262	I21	L 9756	(-)-Tetramisole hydrochloride	Levamisole hydrochloride	Phosphorylation	Enzyme	Inhibitor		Inhibits multiple mammalian alkaline phosphatases
3262	K03	I 4883	(±)-Ibuprofen	alpha-Methyl-4-(isobutyl)phenylacetic acid	Prostaglandin	Enzyme	Inhibitor	COX	Anti-inflammatory and analgesic; non-selective COX inhibitor
3262	K05	I 7378	Indomethacin		Prostaglandin	Enzyme	Inhibitor	COX	Anti-inflammatory; antipyretic and analgesic; blocks prostaglandin biosynthesis by inhibiting prostaglandin cyclooxygenase
3262	K07	I 8898	Ivermectin	MK-933	Cholinergic		Modulator	alpha7 nACh	Positive allosteric modulator of alpha7 neuronal nicotinic acetylcholine receptor; also modulates glutamate-GABA-activated chloride channels
3262	K09	I-120	Iofetamine hydrochloride	N-Isopropyl-p-iodoamphetamine hydrochloride	Neurotransmission		Analog		Reference standard; radio-iodinated iofetamine is used to image brain blood flow

ICCB-L Plate	ICCB-L Well	Vendor ID	Compound Name	Sec Name	Class	Enzyme	Action	Selectivity	Description
3262	K11	L-160	3-(1H-Imidazol-4-yl)propyl di(p-fluorophenyl)methyl ether hydrochloride		Histamine		Antagonist	H3	H3 Histamine receptor antagonist
3262	K13	K 1888	K 185	N-Butanoyl 2-(5,6,7-trihydro-11-methoxybenzo[c]cyclohept[2,1-a]indol-13-yl)ethanamine	Melatonin		Antagonist		Melatonin receptor antagonist
3262	K15	L 1415	L-162,313	(5,7-dimethyl-2-ethyl-3-[[4-[2(n-butyloxycarbonylsulfonamido)-5-isobutyl-3-thienyl]phenyl]methyl]imidazo[4,5,6]pyridine	Neurotransmission		Agonist	AT1	Non-peptide AT1 angiotensin II receptor agonist
3262	K17	L 4376	alpha-Lobeline hydrochloride	(-)-Lobeline hydrochloride	Cholinergic		Agonist	Nicotinic	Neuronal nicotinic acetylcholine receptor agonist
3262	K19	L 8401	LE 300	7-Methyl-6,7,8,9,14,15-hexahydro-5H-benz[d]indolo[2,3-g]azecine	Dopamine		Antagonist	D1	Potent, selective D1 dopamine receptor antagonist
3262	K21	L 9787	L-655,708	Ethyl (S)-11,12,13,13a-Tetrahydro-7-methoxy-9-oxo-9H-imidazo[1,5-a]pyrrolo[2,1-c][1,4]benzodiazepine-1-carboxylate	Benzodiazepine		Ligand	GABA-A	Selective ligand for the benzodiazepine site of GABA-A receptors which contain the alpha5 subunit
3262	M03	S0572	SD-169	Indole-5-carboxamide	Phosphorylation	Enzyme	Inhibitor	p38a MAPK	Orally active, ATP-competitive, p38alpha-selective MAPK inhibitor.
3262	M05	I 7379	Imipramine hydrochloride		Serotonin		Blocker	Reuptake	Tricyclic antidepressant; blocks reuptake of serotonin and norepinephrine
3262	M07	I 9531	Imiloxan hydrochloride	RS 21361	Adrenoceptor		Antagonist	alpha2B	Selective alpha2B-adrenoceptor antagonist
3262	M09	I-122	ICI 204,448 hydrochloride		Opioid		Agonist	kappa	kappa Opioid receptor agonist that does not cross the blood brain barrier
3262	M11	I18008	Isonipetric acid	4-Pipendine carboxylic acid	GABA		Agonist	GABA-A	GABA-A receptor agonist
3262	M13	K 2628	Ketotifen fumarate		Histamine		Antagonist	H1	H1 Histamine receptor antagonist
3262	M15	C5493	CyPPA	Cyclohexyl-[2-(3,5-dimethyl-pyrazol-1-yl)-6-methyl-pyrimidin-4-yl]-amine	K+ Channels		Modulator	SK3 and SK2	CyPPA is a positive modulator of small conductance Ca2+-activated K2+ channels; selective for SK3 and SK2.
3262	M17	L 4762	Loperamide hydrochloride		Opioid		Ligand		Meperidine congener which binds to opioid receptors; Ca2+ channel antagonist
3262	M19	L 8533	Lansoprazole		Ion Pump		Inhibitor	H+ pump	Gastric proton pump inhibitor
3262	M21	L 9908	LY-294,002 hydrochloride	2-(4-Morpholinyl)-8-phenyl-4H-1-benzopyran-4-one hydrochloride	Phosphorylation	Enzyme	Inhibitor	PI3K	Specific phosphatidylinositol 3-kinase (PI3K) inhibitor.
3262	O03	I 5627	(±)-Isoproterenol hydrochloride		Adrenoceptor		Agonist	beta	Sympathomimetic amine acting almost exclusively on beta adrenoceptors; bronchodilator
3262	O05	I 7388	Isoxanthopterin	2-Amino-4,7-dihydroxypteridine	Cell Stress	Enzyme	Metabolite		Product of xanthine oxidase oxidation of pterin, an enzyme involved in reactive oxygen formation.
3262	O07	S3572	Stevioside	(4a-13-[(2-O-β-D-Glucopyranosyl-β-D-glucopyranosyl)oxy]kaur-16-en-18-oic acid β-D-glucopyranosyl ester	Ion Channels		Transport inhibitor	PAH	Noncaloric natural sweetener; inhibits transepithelial transport of para-aminhippurate (PAH) by interfering with the organic anion transport system.
3262	O09	S 8822	SB-525334	6-[2-tert-Butyl-5-(6-methyl-pyridin-2-yl)-1H-imidazol-4-yl]-quinoxaline	Phosphorylation		Inhibitor	Alk5	A potent activin receptor-like kinase (ALK5)/ type I TGFβ-receptor kinase inhibitor .
3262	O11	PZ0137	CP-471474	2-[[[4-(4-Fluorophenoxy)phenyl]sulfonyl]amino]-N-hydroxy y-2-methylpropanamide, PF-1626077	Cytoskeleton and Extracellular Matrix	Enzyme	Inhibitor		CP-471474 is a broad spectrum inhibitor of matrix metalloproteinases
3262	O13	K 3375	Kynurenic acid	4-Hydroxyquinoline-2-carboxylic acid	Glutamate		Antagonist	NMDA-Glycine	Excitatory amino acid receptor antagonist; blocks kainic acid-induced neurotoxicity; metabolite of tryptophan
3262	O15	L 2037	beta-Lapachone		Apoptosis		Activator		Induces apoptosis in HL-60 cells; anticancer agent
3262	O17	L 4900	Lonidamine	Diclonidazole acid	Cell Stress	Enzyme	Inhibitor	Mitochondrial hexokinase	Inhibits the energy metabolism of neoplastic cells by interfering with mitochondrial hexokinase, cellular respiration, and glycolysis; damages cell and mitochondrial membranes
3262	O19	L 8539	L-687,384 hydrochloride	1'-Benzyl-3,4-dihydrospiro[naphthalene-1-(2H),4'-piperidine] hydrochloride	Opioid		Agonist	sigma1	Putative sigma-1 receptor agonist
3262	O21	L-106	Loxapine succinate		Dopamine		Antagonist		Dibenzoxazepine antipsychotic agent
3262	A04	T5576	TMPH hydrochloride	2,2,6,6-Tetramethylpiperidin-4-yl heptanoate hydrochloride	Cholinergic		Inhibitor	Nicotinic	Potent inhibitor of neuronal nicotinic receptors. Subtype specific (alpha3/4 and beta 2/4 combinations).
3262	A06	PZ0106	SC-236	SC-58236, 4-[5-(4-Chlorophenyl)-3-(trifluoromethyl)-1H-pyrazol-1-yl]-benzenesulfonamide	Lipids	Enzyme	Inhibitor	COX-2	SC-236 is a COX-2 inhibitor.
3262	A08	M 1387	4-Methylpyrazole hydrochloride	Fomepizole	Biochemistry	Enzyme	Inhibitor	Alcohol dehydrogenase	Alcohol dehydrogenase inhibitor

ICCB-L Plate	ICCB-L Well	Vendor ID	Compound Name	Sec Name	Class	Enzyme	Action	Selectivity	Description
3262	A10	PZ0109	PD-161570	PF-1480232, 1-tert-Butyl-3-[6-(2,6-dichlorophenyl)-2-[[4-(diethylamino)butyl]amino]pyrido[2,3-d]pyrimidin-7-yl]urea	Tyrosine kinase	Enzyme	Inhibitor	FGF-1	PD-161570 is an inhibitor of human FGF-1 receptor tyrosine kinase.
3262	A12	M 2901	Molsidomine	SIN-10	Nitric Oxide		Donor		Vasodilator; converted by the liver to the active metabolite, SIN-1
3262	A14	M 3668	Metergoline	[[8beta)-1,6-Dimethylergolin-8-yl]-methyl]carbamic acid phenylmethyl ester	Serotonin		Antagonist	5-HT2/5-HT1D	5-HT1/5-HT2 Serotonin receptor antagonist; analgesic; antipyretic
3262	A16	M 4531	Meclofenamic acid sodium	2-[(2,6-Dichloro-3-methylphenyl)amino]benzoic acid sodium	Prostaglandin	Enzyme	Inhibitor	COX / 5-Lipoxygenase	Cyclooxygenase and 5-Lipoxygenase inhibitor
3262	A18	M 5391	(±)-Metoprolol (+)-tartrate	1-(Isopropylamino)-3-(p-[beta-methoxyethyl]phenoxy)-2-propanol tartrate	Adrenoceptor		Antagonist	beta1	Beta1-Adrenoceptor antagonist
3262	A20	PZ0139	SC-58125	5-(4-Fluorophenyl)-1-[4-(methylsulfonyl)phenyl]-3-(trifluoromethyl)pyrazole	Lipids	Enzyme	Inhibitor	COX-2	SC-58125 is a selective cyclooxygenase 2 (COX-2) inhibitor
3262	A22	M 6690	MDL 28170	Z-Val-Phe-CHO	Cell Cycle	Enzyme	Inhibitor	Calpain I / II	Cell permeable calpain I and II inhibitor
3262	C04	L-109	Lorglumide sodium	CR 1409	Cholecystokinin		Antagonist	CCK-A	Potent and selective non-peptide cholecystokinin (CCK) receptor antagonist; orally active
3262	C06	L-134	Linopirdine	DuP 996	Cholinergic		Releaser		Stimulates release of acetylcholine and other neurotransmitters; cognitive enhancer
3262	C08	M 1404	Nocodazole	R 17934	Cytoskeleton and ECM		Inhibitor	beta-tubulin	Disrupts microtubules by binding to beta-tubulin
3262	C10	M 2398	Metaproterenol hemisulfate		Adrenoceptor		Agonist	beta2	beta2-Adrenoceptor agonist
3262	C12	B7936	BBMP	5-(Benylsulfonyl)-4-bromo-2-methyl-3(2H)-pyridazinone	Cell Stress		Inhibitor	PTP	Mitochondrial permeability transition pore (PTP) inhibitor. PTP inhibitors and mitochondrial depolarization are potential therapeutics for neurodegenerative diseases.
3262	C14	U-106	(-)-cis-(1S,2R)-U-50488 tartrate	(-)-(1S,2R)-cis-3,4-Dichloro-N-methyl-N-[2-(1-pyrrolidinyl)cyclohexyl]benzeneacetamide tartrate	Neurotransmission		Ligand	Sigma receptor	Potent sigma receptor ligand.
3262	C16	M 4659	Milrinone	1,6-Dihydro-2-methyl-6-oxo-[3,4'-bipyridine]-5-carbonitrile	Cyclic Nucleotides	Enzyme	Inhibitor	PDE III	Phosphodiesterase III inhibitor
3262	C18	M 5435	6-Methyl-2-(phenylethynyl)pyridine hydrochloride	MPEP hydrochloride	Glutamate		Antagonist	mGluR5	Highly selective, non-competitive mGluR5 metabotropic glutamate receptor antagonist
3262	C20	M 6383	2-methoxyestradiol	2-Hydroxyestradiol 2-methyl ether	Hormone		Metabolite	Estrogen	Inhibitor of angiogenesis and endothelial cell proliferation
3262	C22	M 6760	Myricetin	Cannabiscetin	Phosphorylation	Enzyme	Inhibitor	Casein Kinase II	Casein Kinase II inhibitor
3262	E04	C1244	CHM-1 hydrate	2-(2-fluorophenyl)-6,7-methylenedioxy-2,4-quinolone hydrate; NSC 656158	Apoptosis		Inducer		Possesses antimetabolic antitumor activity. It is a potent and selective antitumor agent in human hepatocellular carcinoma. CHM-1 induces apoptosis, and it binds tubulin and inhibits tubulin polymerization.
3262	E06	L-135	L-741,626	(±)-3-[4-(4-Chlorophenyl)-4-hydroxypiperidinyl]methylindole	Dopamine		Antagonist	D2	Selective D2 dopamine receptor antagonist
3262	E08	M 1514	N-omega-Methyl-5-hydroxytryptamine oxalate salt	N-omega-Methylserotonin	Serotonin		Ligand		Serotonin receptor ligand
3262	E10	M 2525	Mianserin hydrochloride	1,2,3,4,10,14b-Hexahydro-2-methylidibenzo[c,f]pyrrolo[1,2-a]azepine hydrochloride	Serotonin		Antagonist		Serotonin receptor antagonist
3262	E12	M 3047	Mizoribine	N'-(beta-D-Ribofuranosyl)-5-hydroxyimidazole-4-carboxamide	DNA Metabolism	Enzyme	Inhibitor	IMP dehydrogenase	Arrests at G/S; inhibits de novo synthesis of nucleotides by inhibition of inosine monophosphate dehydrogenase
3262	E14	M 3778	Clorgyline hydrochloride	N-Methyl-N-propargyl-3-(2,4-dichlorophenoxy)-propylamine hydrochloride	Neurotransmission	Enzyme	Inhibitor	MAO-A	Selective MAO-A inhibitor
3262	E16	M 4796	(±)-alpha-Methyl-4-carboxyphenylglycine	(±)-MCPG	Glutamate		Antagonist	Metabotropic	Competitive metabotropic glutamate receptor antagonist
3262	E18	M 5441	Mibefradil dihydrochloride	Ro 40-5967; (1S,2S)-2-[[[3-(2-benzimidazolylpropyl)methylamino]ethyl]-6-fluoro-1,2,3,4-tetrahydro-1-isopropyl-2-naphthyl]methoxyacetate dihydrochloride	Ca2+ Channel		Blocker	T-type	T-type Ca2+ channel blocker
3262	E20	M 6500	Cysteamine hydrochloride	Mercaptamine; MEA hydrochloride	Somatostatin		Depletter		Induces duodenal ulcers in rats, potent depletion of prolactin concentrations in pituitary tissue in vivo and in vitro and depletion of somatostatin concentrations.
3262	E22	M 7033	NG-Monomethyl-L-arginine acetate	L-NMMA	Nitric Oxide	Enzyme	Inhibitor	NOS	Nitric oxide synthase inhibitor; blocks formation of endothelium-derived relaxing factor (EDRF)
3262	G04	P 0618	cis(+/-)-8-OH-PBZI hydrobromide	cis-8-Hydroxy-3-(n-propyl)-1,2,3a,4,5,9b-hexahydro-1H-benz[e]indole hydrobromide	Dopamine		Agonist	D3	D3 dopamine receptor agonist

ICCB-L Plate	ICCB-L Well	Vendor ID	Compound Name	Sec Name	Class	Enzyme	Action	Selectivity	Description
3262	G06	L119	L-703,606 oxalate salt hydrate	cis-2-(Diphenylmethyl)-N-[(2-iodophenyl)methyl]-1-azabicyclo[2.2.2]octan-3-amine oxalate salt	Tachykinin		Antagonist	NK1	Potent and selective non-peptide NK-1 tachykinin receptor antagonist
3262	G08	M 1559	Moxonidine hydrochloride	BDF-5895	Adrenoceptor		Agonist	alpha2A	Selective alpha2A adrenoceptor agonist; imidazoline binding site agonist; antihypertensive
3262	G10	M 2537	Mevastatin	Compactin	Antibiotic	Enzyme	Inhibitor	Ras, Rho	Antibiotic; inhibits post-translational prenylation of proteins such as Ras and geranylgeranylation of Rho
3262	G12	M 3127	S-Methylisothiourea hemisulfate	Carbamimidothioic acid methyl ester hemisulfate	Nitric Oxide	Enzyme	Inhibitor	iNOS	Selective inducible nitric oxide synthase inhibitor
3262	G14	M 3808	MRS 2179	2'-Deoxy-N6-methyl adenosine 3',5'-diphosphate diammonium salt	P2 Receptor		Antagonist	P2Y1	Competitive P2Y1 receptor antagonist
3262	G16	M 4910	1-Methylhistamine dihydrochloride		Histamine		Metabolite		Histamine metabolite that crosses the blood-brain barrier
3262	G18	M 5501	N6-Methyladenosine	6-Methylaminopurine-9-ribofuranoside	Adenosine		Agonist		Adenosine analog useful for an adenosine reference standard since it is a poor substrate for adenosine deaminase
3262	G20	M 6517	alpha,beta-Methylene adenosine 5'-triphosphate dilithium	alpha,beta-Methylene ATP, AMP-CPP dilithium	P2 Receptor		Agonist	P2X > P2Y	P2 receptor agonist that is more potent than ATP at the P2X subtype
3262	G22	M 7065	MK-912	L-657,743 hydrochloride	Adrenoceptor		Agonist	alpha2A	Selective alpha2A adrenoceptor agonist
3262	I04	B175	BW 723C86	alpha-methyl-5-(2-thienylmethoxy)-1H-Indole-3-ethanamine monohydrochloride	Serotonin		Agonist	5-HT2B	5-HT2B serotonin receptor agonist.
3262	I06	M 0763	Metoclopramide hydrochloride		Dopamine		Antagonist	D2	5-HT3 Serotonin receptor antagonist; D2 dopamine receptor antagonist; anti-emetic
3262	I08	PZ0107	CP-101537	MN-2633, PF-3339644, N-(1a,5a,6a)-3-Azabicyclo[3.1.0]hex-6-yl-carbamic acid 1,1-dimethylethyl ester	Cytoskeleton and Extracellular Matrix	Enzyme	Inhibitor	MMP	CP-101537 is a MMP inhibitor, candidate drug for myocardial infarction therapy, and antibacterial.
3262	I10	M 2547	8-Methoxymethyl-3-isobutyl-1-methylxanthine	8-Methoxymethyl-IBMX	Cyclic Nucleotides	Enzyme	Inhibitor	PDE I	Selective inhibitor of Ca2+-calmodulin-dependent phosphodiesterase (PDE I)
3262	I12	M 3184	MG 624	N,N,N-Triethyl-2-(4-trans-stilbenoxy)ethylammonium iodide	Cholinergic		Antagonist	Nicotinic	Nicotinic acetylcholine receptor antagonist; selectively inhibits alpha-bungarotoxin sensitive receptors that contain the alpha7 subunit
3262	I14	M 3935	Meloxicam sodium	4-Hydroxy-2-methyl-N-(5-methyl-2-thiazolyl)-2H-1,2-benzothiazine-3-carboxamide 1,1-dioxide	Prostaglandin	Enzyme	Inhibitor	COX-2	Non-steroidal anti-inflammatory drug (NSAID) that shows 300-fold selectivity for cyclooxygenase-2 (COX-2) vs. cyclooxygenase-1 (COX-1).
3262	I16	M 5154	Moxisylyte hydrochloride	4-Dimethylaminoethoxy-5-isopropyl-2-methylphenyl acetate hydrochloride	Adrenoceptor		Antagonist	alpha1	alpha1-Adrenoceptor antagonist
3262	I18	M 5560	(S)-MAP4 hydrochloride	(S)-2-Amino-2-methyl-4-phosphonobutanoate hydrochloride	Glutamate		Antagonist	mGluR4,6,7	Selective mGluR4,6,7 metabotropic glutamate receptor antagonist
3262	I20	M 6524	Methoxamine hydrochloride		Adrenoceptor		Agonist	alpha1	alpha1 Adrenoceptor agonist
3262	I22	M 7277	(±)-3-(3,4-dihydroxyphenyl)-2-methyl-DL-alanine	DL-alpha-Methyl-DOPA	Neurotransmission	Enzyme	Inhibitor	L-aromatic amino acid decarboxylase	L-aromatic amino acid decarboxylase inhibitor; antihypertensive
3262	K04	L-121	Levallorphan tartrate	17-(2-Propenyl)morphinan-3-ol tartrate	Opioid		Antagonist		Opioid receptor antagonist.
3262	K06	M 0814	R(-)-Me5	1-(2,6-Dimethylphenoxy)-3-methyl-2-butanamine hydroiodide	Na+ Channel		Antagonist		Potent sodium channel antagonist
3262	K08	B 1686	BIO	(2'Z,3'E)-6-Bromindirubin-3'-oxime	Phosphorylation	Enzyme	Inhibitor	GSK-3alpha/beta	Potent, selective, reversible, and ATP-competitive glycogen synthase kinase 3alpha/beta (GSK-3alpha/beta) inhibitor.
3262	K10	M 2692	MK-886	3-[3-tert-Butylthio-1-(4-chlorobenzyl)-5-isopropyl-1H-indol-2-yl]-2,2-dimethylpropionic acid, sodium salt	Leukotriene		Inhibitor		Potent and specific inhibitor of leukotriene biosynthesis
3262	K12	M 3262	N-Methyl-D-aspartic acid	NMDA	Glutamate		Agonist	NMDA	NMDA glutamate receptor agonist
3262	K14	M 4008	Morin	2',3,4',5,7-Pentahydroxyflavone	Cell Stress		Inhibitor	Antioxidant	Flavonoid with anti-oxidant properties; oxyradical scavenger
3262	K16	M 5171	S-Methyl-L-thiocitrulline acetate	N5-[lmino(methylthio)methyl]-L-ornithine acetate	Nitric Oxide	Enzyme	Inhibitor	NOS	Potent inhibitor of NOS; more potent than L-thiocitrulline
3262	K18	M 5644	(±)-Methoxyverapamil hydrochloride	D600; Gallopamil	Ca2+ Channel		Antagonist	L-type	L-type Ca2+ channel antagonist
3262	K20	M 6545	Mitoxantrone	1,4-Dihydroxy-5,8-bis(2-hydroxyethyl)aminoethylamino)-9,10-anthracenedione	DNA Metabolism		Inhibitor		DNA synthesis inhibitor
3262	K22	M 7684	MRS 2159		P2 Receptor		Antagonist	P2X1	P2X1 receptor antagonist
3262	M04	A 2355	AFMK	N-[3-[2-(Formylamino)-5-methoxyphenyl]-3-oxopropyl]acetamide; NSC 688263	Inflammation		Inhibitor	LPS-mediated TNFalpha and IL-8 production	Melatonin metabolite; antioxidant; free radical scavenger; inhibits LPS-mediated production of TNFalpha and IL-8 in neutrophils.

ICCB-L Plate	ICCB-L Well	Vendor ID	Compound Name	Sec Name	Class	Enzyme	Action	Selectivity	Description
3262	M06	M 1022	Dihydrocapsaicin	8-Methyl-N-vanillylonanamide	Vanilloid		Agonist		Capsaicin analog
3262	M08	M 1809	MRS 1523	3-propyl-6-ethyl-5-[[ethylthio]carbonyl]-2-phenyl-4-propyl-3-pyridine carboxylate	Adenosine		Antagonist	A3	Selective A3 adenosine receptor antagonist in rat
3262	M10	M 2727	Mexiletene hydrochloride	1-(2,6-Xylyloxy)-2-aminopropane	Na+ Channel		Blocker		Sodium channel blocker
3262	M12	M 3281	alpha-Methyl-DL-tyrosine methyl ester hydrochloride	AMPT	Neurotransmission	Enzyme	Inhibitor	Tyrosine hydroxylase	Tyrosine hydroxylase inhibitor
3262	M14	M 4145	Minoxidil		K+ Channel		Activator	ATP sensitive	K+ channel activator; antihypertensive
3262	M16	M 5250	Melatonin	N-[2-(5-Methoxyindol-3-yl)ethyl]acetamide	Melatonin		Agonist		Endogenous neurohormone which controls photo-periodic biological rhythms
3262	M18	M 5685	Metrazoline oxalate	1H-Imidazole, 4,5-dihydro-2-[(1E)-2-(2-methylphenyl)ethenyl]-ethandioate	Imidazoline		Ligand		Potent and selective imidazoline binding site ligand
3262	M20	M 6628	O-Methylserotonin hydrochloride	Mexamine hydrochloride	Serotonin		Agonist		Nonselective serotonin receptor agonist that lacks affinity for the 5-HT3 receptor
3262	M22	G 5793	GR 127935 hydrochloride hydrate	N-[4-Methoxy-3-(4-methyl-1-piperazinyl)phenyl]-2'-methyl-4'-(5-methyl-1,2,4-oxadiazol-3-yl)-1,1'-biphenyl-4-carboxamide hydrochloride	Serotonin		Antagonist	5-HT1B/1D	Selective 5-HT1B/1D serotonin receptor antagonist.
3262	O04	L-131	L-745,870 hydrochloride	3-[[4-(4-Chlorophenyl)piperazin-1-yl]methyl]-1H-pyrrolo[2,3-b]pyridine hydrochloride	Dopamine		Antagonist	D4	Selective D4 dopamine receptor antagonist
3262	O06	M 1275	(-)-Naproxen sodium	(S)-6-Methoxy-alpha-methyl-2-naphthaleneacetic acid sodium	Prostaglandin	Enzyme	Inhibitor	COX	COX-1 and COX-2 inhibitor
3262	O08	F7932	Famciclovir	2-(2-(2-Amino-9H-purin-9-yl)ethyl)-1,3-propanediol diacetate ester, BRL 42810	Immune Cell Signaling		Antiviral		Famciclovir is an antiviral
3262	O10	M 2776	Methylergonovine maleate	Methergine maleate	Dopamine		Antagonist		Dopamine antagonist; ergot alkaloid which interacts with serotonergic, dopaminergic and alpha-adrenergic systems
3262	O12	M 7319	ML 10302	2-Piperidinoethyl-4-amino-5-chloro-2-methoxybenzoate	Serotonin		Agonist	5-HT4	Potent, selective 5-HT4 serotonin receptor agonist.
3262	O14	R 8404	Rufinamide	1-[(2,6-difluorophenyl)methyl]-1H-1,2,3-Triazole-4-carboxamide	Neurotransmission		Anticonvulsant		Broad-spectrum anticonvulsant.
3262	O16	M 5379	L-Methionine sulfoximine	L-S-(3-Amino-3-carboxypropyl)-S-methylsulfoximine	Glutamate	Enzyme	Inhibitor	Glutamine synthase	Ornithine decarboxylase activator; glutamine synthetase inhibitor
3262	O18	M 6191	GW9662	2-Chloro-5-nitro-N-phenylbenzamide	Transcription		Inhibitor	PPAR-gamma	Irreversible peroxisome proliferator-activated receptor-gamma (PPAR-gamma) inhibitor
3262	O20	E4660	Eupatorin	3',5-Dihydroxy-4',6,7-trimethoxyflavone, 5-Hydroxy-2-(3-hydroxy-4-methoxyphenyl)-6,7-dimethoxy-4H-1-benzopyran-4-one, 6-Methoxyluteolin 4',7-dimethyl ether, NSC 106402	Cell Cycle			CYP1A- family	Eupatorin acts as an antiproliferative in cells expressing the CYP1A- family. It induces G2/M block follow by apoptosis in cells expressing the CYP1A- family
3262	O22	D 8941	2,6-Difluoro-4-[2-(phenylsulfonylamino)ethylthio]phenoxyacetamide	PEPA	Glutamate		Agonist	AMPA	Selective, high affinity AMPA ionotropic glutamate receptor agonist; reduces ischemia-induced performance deficits in rats.
3262	B03	M 8046	Mifepristone		Hormone		Antagonist	Progesterone	Progesterone receptor antagonist
3262	B05	M 9511	Minocycline hydrochloride		Cell Cycle	Enzyme	Inhibitor		Basement membrane protease inhibitor; inhibits endothelial cell proliferation and angiogenesis.
3262	B07	M-108	(-)-MK-801 hydrogen maleate	(5S,10R)-(-)-5-Methyl-10,11-dihydro-5H-dibenzo[a,d]cyclohepten-5,10-imine	Glutamate		Antagonist	NMDA	Less active enantiomer of (+)-MK-801 hydrogen maleate; anticonvulsant; NMDA glutamate receptor antagonist.
3262	B09	M-149	Methiothepin mesylate	1-[10,11-Dihydro--8-(methylthio)dibenzo[b,f]thiepin-10-yl]-4-methylpiperazine mesylate	Serotonin		Antagonist	5-HT1E, 5-HT1F, 5-HT6	5-HT1 Serotonin receptor antagonist; blocks serotonin autoreceptors
3262	B11	M-216	MDL 105,519	(Z)-2-Carboxy-4,6-dichloroindole-3-(2'-phenyl-2'-carboxy)-ene	Glutamate		Antagonist	NMDA-Glycine	High affinity NMDA glutamate receptor antagonist at the glycine site
3262	B13	N 1771	nor-Binaltorphimine dihydrochloride	nor-BNI dihydrochloride	Opioid		Antagonist	kappa	Highly selective kappa opioid receptor antagonist
3262	B15	PZ0111	PD-407824	9-Hydroxy-4-phenylpyrrolo[3,4-c]carbazole-1,3(2H,6H)-dione	Kinase	Enzyme	Inhibitor	Wee1/Chk1	PD-407824 is a Wee1/Chk1 inhibitor
3262	B17	E2535	Eprosartan mesylate	Eprosartan Monomethanesulfonate, SKF-108566J, Teveten	Angiotensins		Antagonist	AT 1	Angiotensin II type 1 (AT1) receptor antagonist; anti-hypertensive
3262	B19	N 7510	Nicardipine hydrochloride	YC-93 hydrochloride	Ca2+ Channel		Antagonist	L-type	L-type Ca2+ channel antagonist; antihypertensive

ICCB-L Plate	ICCB-L Well	Vendor ID	Compound Name	Sec Name	Class	Enzyme	Action	Selectivity	Description
3262	B21	N 8652	NF 023	8,8'-[carbonylbis(imino-3,1-phenylene carbonylimino)]bis(1,3,5-naphthalene-trisulfonic acid) hexasodium salt	P2 Receptor		Antagonist	P2X1	Potent, selective P2X1 receptor antagonist
3262	D03	M 8131	L-alpha-Methyl-p-tyrosine	(S)-alpha-Methyltyrosine	Neurotransmission	Enzyme	Inhibitor	Tyrosine hydroxylase	Tyrosine hydroxylase inhibitor
3262	D05	M 9651	Maprotiline hydrochloride	9-(gamma-Methylaminopropyl)-9,10-dihydro-9,10-ethanoanthracene hydrochloride	Adrenoceptor		Inhibitor	Reuptake	Selective norepinephrine reuptake inhibitor
3262	D07	M-109	2-Methyl-5-hydroxytryptamine maleate	2-Methylserotonin maleate	Serotonin		Agonist	5-HT3	5-HT3 Serotonin receptor agonist
3262	D09	N4163	Nemadipine-A	1,4-Dihydro-2,6-dimethyl-4-(pentafluorophenyl)-3,5-pyridinedicarboxylic acid diethyl ester	Ca2+ Channels		Antagonist	L-type (alpha 1)	An L-type calcium channel alpha1-subunit antagonist.
3262	D11	S 7198	Sivelestat sodium salt hydrate	EI 546, Elaspol, LY 544349, o-(p-Hydroxybenzenesulfonamido)hippuric acid, pivalate (ester), Ono-5046	Biochemistry	Enzyme	Inhibitor	HNE	Sivelestat is a competitive human neutrophil elastase (HNE) inhibitor (IC50 = 44 nM, Ki = 0.2 µM). It also inhibits leukocyte elastase obtained from rabbit, rat, hamster and mouse (IC50 = 19 to 49 nM).
3262	D13	N2001	Neostigmine bromide		Cholinergic	Enzyme	Inhibitor	Acetylcholinesterase	Reversible acetylcholinesterase inhibitor.
3262	D15	N 4148	S-Nitrosoglutathione	GSNO	Nitric Oxide		Donor		Nitric oxide donor in vivo
3262	D17	N 5501	NG-Nitro-L-arginine	L-NOARG; L-NNA	Nitric Oxide	Enzyme	Inhibitor	NOS	Potent nitric oxide synthase inhibitor
3262	D19	N 7634	Nifedipine		Ca2+ Channel		Antagonist	L-type	L-type Ca2+ channel blocker; vasodilator
3262	D21	N 8659	Nimustine hydrochloride	ACNU	DNA		Intercalator		Antineoplastic; bifunctional nitrosourea alkylating anticancer agent
3262	F03	S 1068	SB-215505	6-Chloro-5-methyl-1-5-quinolylcarbonyl-indoline	Serotonin		Antagonist	5-HT2B	Selective 5-HT2B serotonin receptor antagonist; 100-fold higher affinity at 2B versus 2C.
3262	F05	M 9656	H-8 dihydrochloride	N-[2-(Methylamino)ethyl]-5-isoquinolinesulfonamide dihydrochloride	Phosphorylation	Enzyme	Inhibitor	PKA, PKG	Potent inhibitor of cAMP- and cGMP-dependent protein kinase
3262	F07	M-110	alpha-Methyl-5-hydroxytryptamine maleate	alpha-Methylserotonin maleate	Serotonin		Agonist	5-HT2	5-HT2 Serotonin receptor agonist
3262	F09	M3071	Moclobemide	4-Chloro-N-[2-(4-morpholinyl)ethyl]benzamide	Neurotransmission	Enzyme	Inhibitor	MAO	Reversible monoamine oxidase A inhibitor (MAOI); antidepressant.
3262	F11	M-226	p-MPPF dihydrochloride	4-Fluoro-N-(2-[2-(2-methoxyphenyl)1-piperazinyl]ethyl)-N-(2-pyridinyl)benzamide dihydrochloride	Serotonin		Antagonist	5-HT1A	Selective 5-HT1A serotonin receptor antagonist
3262	F13	N 2034	CR 2249	Nebostinel	Glutamate		Agonist	NMDA-Glycine	Facilitates glycine action at NMDA glutamate receptors
3262	F15	N 4159	NCS-382	1-Ethyl-1,4-dihydro-7-methyl-4-oxo-1,8-naphthyridine-3-carboxylic acid	GABA		Antagonist	gamma-Hydroxybutyrate	gamma-Hydroxybutyrate receptor antagonist
3262	F17	N 5504	Naphazoline hydrochloride	2-(1-Naphthylmethyl)imidazoline nitrate	Adrenoceptor		Agonist	alpha	alpha-Adrenoceptor agonist; imidazoline receptor agonist; vasoconstrictor
3262	F19	N 7758	Naloxone hydrochloride		Opioid		Antagonist		Opioid receptor antagonist
3262	F21	N 8784	Norcantharidin		Phosphorylation	Enzyme	Inhibitor	PP2A	Demethylated form of cantharidin with antitumor properties; potent inhibitor of the serine/threonine protein phosphatase 2A (PP2A)
3262	H03	M 8878	1-Methylimidazole	Methimazole	Prostaglandin	Enzyme	Inhibitor	COX	Anti-inflammatory; prostaglandin H synthase inhibitor; antithyroid drug
3262	H05	M-001	Proglumide	4-Benzoylamino-5-dipropylamino-5-oxopentanoic acid	Cholecystokinin		Antagonist		Selective cholecystokinin receptor antagonist
3262	H07	M-116	Metolazone		Ion Pump		Inhibitor	Na+/Cl- transporter	Diuretic; antihypertensive
3262	H09	M-166	MDL 26,630 trihydrochloride	1,5-(Diethylamino)piperidine trihydrochloride	Glutamate		Agonist	NMDA-Polyamine	Spermidine analog that activates the polyamine site associated with the NMDA glutamate receptor
3262	H11	L8668	Levetiracetam	(alphaS)-alpha-Ethyl-2-oxo-1-pyrrolidineacetamide	Neurotransmission		Anticonvulsant		Anticonvulsant; antiepileptic; exact mechanism of action is unclear but may be related to a synaptic vesicle protein.
3262	H13	N 2255	S-(4-Nitrobenzyl)-6-thioinosine	NBTI	Adenosine		Inhibitor	Uptake	Potent adenosine uptake inhibitor
3262	H15	N 4382	Nalidixic acid sodium	1-Ethyl-1,4-dihydro-7-methyl-4-oxo-1,8-naphthyridine-3-carboxylic acid sodium	Antibiotic	Enzyme	Inhibitor	DNA Gyrase	Inhibits bacterial DNA polymerase (DNA gyrase)
3262	H17	N 5636	3-Nitropropionic acid		Cell Stress		Toxin		Mitochondrial inhibitor; excitotoxin shown to cause brain lesions similar to those of Huntington's disease
3262	H19	N 7778	7-Nitroindazole		Nitric Oxide	Enzyme	Inhibitor	nNOS	Selective inhibitor of brain nitric oxide synthase
3262	H21	N 9007	Noscapine hydrchloride	Narcotine	Opioid		Ligand		Antitussive; naturally occurring opium alkaloid
3262	J03	M 9020	Mecamylamine hydrochloride		Cholinergic		Antagonist	Nicotinic	Nicotinic acetylcholine receptor antagonist

ICCB-L Plate	ICCB-L Well	Vendor ID	Compound Name	Sec Name	Class	Enzyme	Action	Selectivity	Description
3262	J05	F 0430	Fenobam	N-(3-Chlorophenyl)-N'-(4,5-dihydro-1-methyl-4-oxo-1H-imidazole-2-yl)urea	Glutamate		Antagonist	mGluR5	Potent, selective, noncompetitive glutamate mGluR5 receptor antagonist
3262	J07	D 0943	DFB	3,3'-Difluorobenzaldazine	Glutamate		Modulator	mGluR5	Positive allosteric modulator of the mGluR5 metabotropic glutamate receptor.
3262	J09	Z 4626	ZM 39923 hydrochloride	3-(N-Benzyl-N-isopropyl)amino-1-(naphthalen-2-yl)propan-1-one hydrochloride	Phosphorylation	Enzyme	Inhibitor	JNK-3	Janus kinase 3 (JNK-3) inhibitor.
3262	J11	N 0630	Niflumic acid	2-(3-[Trifluoromethyl]anilino)nicotinic acid	Prostaglandin	Enzyme	Inhibitor	COX-2	Selective prostaglandin H synthase 2 (PGHS-2) inhibitor
3262	J13	N 3136	Naltrexone hydrochloride	17-(Cyclopropylmethyl)-4,5-epoxy-3,14-dihydroxymorphinan-6-one hydrochloride	Opioid		Antagonist		Opioid receptor antagonist with greater potency and longer duration of action than its N-allyl congener, naloxone
3262	J15	G8761	Gossypol	2,2'-bis(8-Formyl-1,6,7-trihydroxy-5-isopropyl-3-methylnaphthalene)	Apoptosis		Inducer		Natural product from cotton seeds with a variety of cell biological activities. Proapoptotic, antimalarial, PKC inhibition.
3262	J17	N 5751	NG-Nitro-L-arginine methyl ester hydrochloride	L-NAME hydrochloride	Nitric Oxide	Enzyme	Inhibitor	NOS	Competitive inhibitor of nitric oxide synthase
3262	J19	M2199	PMEG hydrate	9-[2-(Phosphonomethoxy)ethyl]guanine hydrate	Apoptosis and Cell Cycle	Enzyme	Inhibitor	DNA polymerase	potent inhibition of the nuclear DNA polymerases resulting in inhibition of DNA synthesis and/or DNA repair
3262	J21	T 8703	T0070907	2-Chloro-5-nitro-N-4-pyridinyl-benzamide, Benzamide, 2-chloro-5-nitro-N-4-pyridinyl-	Gene Regulation		Antagonist	PPAR gamma	T0070907 is very similar in structure and activity to the PPARgamma antagonist GW9662. T0070907 is more potent and has higher selectivity for PPAR-gamma over all other subtypes (about 800-fold)
3262	L03	M 9125	Methapyrilene hydrochloride	N,N-Dimethyl-N'-(2-pyridinyl)-N'-(2-thienylmethyl)-1,2-ethanediamine hydrochloride	Histamine		Antagonist	H1	H1 Histamine receptor antagonist
3262	L05	M-104	(±)-Muscarine chloride	Tetrahydro-4-hydroxy-N,N,N,5-tetramethyl-2-furanmethan ammonium chloride	Cholinergic		Agonist	Muscarinic	Muscarinic acetylcholine receptor agonist
3262	L07	M-129	L-alpha-Methyl DOPA	MK-351; Methyl dopa	Biochemistry	Enzyme	Inhibitor	Aromatic amino acid decarboxylase	L-aromatic amino acid decarboxylase inhibitor; antihypertensive
3262	L09	M-184	3-Morpholinonydronimine hydrochloride	Linsidomine hydrochloride	Nitric Oxide		Donor		Nitric oxide donor
3262	L11	N 1016	Nimesulide	N-(4-Nitro-2-phenoxyphenyl)methanesulfonamide	Prostaglandin	Enzyme	Inhibitor	COX-2	Highly selective COX-2 inhibitor
3262	L13	N 3398	S-Nitroso-N-acetylpenicillamine	SNAP	Nitric Oxide		Donor		Nitric oxide donor; activates soluble guanylyl cyclase
3262	L15	N 4779	5-Nitro-2-(3-phenylpropylamino)benzoic acid	NPPB	Cl- Channel		Blocker		Potent Cl- channel blocker
3262	L17	N 7127	(±)-Normetanephrine hydrochloride	alpha-(Aminomethyl)-4-hydroxy-3-methoxy-benzyl alcohol hydrochloride	Adrenoceptor		Metabolite	Norepinephrine	Norepinephrine metabolite
3262	L19	C3743	CI-976	2,2-Dimethyl-N-(2,4,6-trimethoxyphenyl)dodecanamide	Lipid Signaling	Enzyme	Inhibitor	ACAT	Potent and selective acyl coenzyme A: cholesterol acyltransferase inhibitor.
3262	L21	N-115	Naltrindole hydrochloride	NTI hydrochloride	Opioid		Antagonist	delta	Highly selective, non-peptide delta opioid receptor antagonist that is active when administered peripherally
3262	N03	M 9292	Memantine hydrochloride	3,5-Dimethyl-1-adamantanamine hydrochloride	Glutamate		Antagonist	NMDA	Antagonist of NMDA glutamate receptors; stimulates dopamine release
3262	N05	M-105	Methoctramine tetrahydrochloride	N,N'-bis[6-[(2-Methoxyphenyl)methyl]amino]hexyl]1,8-octane diamine tetrahydrochloride	Cholinergic		Antagonist	M2	Selective M2 muscarinic acetylcholine receptor antagonist
3262	N07	M-137	Methysergide maleate		Serotonin		Antagonist		Serotonin receptor antagonist; antimigraine
3262	N09	PZ0117	PF-573228	6-[4-(3-Methanesulfonyl-benzylamino)-5-trifluoromethyl-pyrimidin-2-ylamino]-3,4-dihydro-1H-quinolin-2-one, PF-228	Kinase/Phosphatase	Enzyme	Inhibitor		PF-573228 is a focal adhesion kinase (FAK) inhibitor; Non-receptor tyrosine kinase inhibitor
3262	N11	N 1392	Nialamide	4-Pyridinecarboxylic acid 2-[3-oxo-3-[(phenylmethyl)amino]propyl]hydrazide	Neurotransmission	Enzyme	Inhibitor	MAO	Monoamine oxidase inhibitor
3262	N13	N 3510	Nicosamide	2',5'-Dichloro-4'-nitrosalicylanilide	Antibiotic			Protonophore	Protonophoric anthelmintic; uncouples oxidative phosphorylation
3262	N15	A6605	AMN082	N,N'-Dibenzhydrylethane-1,2-diamine dihydrochloride	Glutamate		Agonist	mGluR7	Selective allosteric mGluR7 receptor agonist.
3262	N17	N 7261	Nortriptyline hydrochloride		Adrenoceptor		Inhibitor	Uptake	Tricyclic antidepressant
3262	N19	N 8403	6-Nitroso-1,2-benzopyrone		Transcription	Enzyme	Inhibitor	PARP	Poly(ADP-ribose) polymerase (PARP) ligand which preferentially destabilizes one of the two zinc-fingers inactivating the enzyme

ICCB-L Plate	ICCB-L Well	Vendor ID	Compound Name	Sec Name	Class	Enzyme	Action	Selectivity	Description
3262	N21	S 6319	Sertraline hydrochloride	(1S,4S)-4-(3,4-Dichlorophenyl)-1,2,3,4-tetrahydro-N-methyl-1-naphthalenamine hydrochloride	Serotonin		Inhibitor	Reuptake	Selective serotonin reuptake inhibitor; antidepressant
3262	P03	M 9440	Me-3,4-dephostatin	3,4-Dihydroxy-N-methyl-N-nitrosaline	Phosphorylation	Enzyme	Inhibitor	PP1B / SHPTP-1	Selective inhibitor of protein tyrosine phosphatase 1B and SHPTP-1
3262	P05	M-107	(+)-MK-801 hydrogen maleate	Dizocilpine maleate	Glutamate		Antagonist	NMDA	Highly potent and selective non-competitive NMDA glutamate receptor antagonist
3262	P07	E5406	Ethopropazine hydrochloride	10-[2-(Diethylamino)propyl]phenothiazine hydrochloride	Neurotransmission	Enzyme	Inhibitor	Butyrylcholinesterase	Butyrylcholinesterase inhibitor; antiparkinsonian
3262	P09	S 5321	S15535	1-(2,3-Dihydro-1,4-benzodioxin-5-yl)-4-(2,3-dihydro-1h-inden-2-yl)-piperazine	Serotonin		Agonist	5-HT1A	Potent, orally active, partial 5-HT1A receptor agonist.
3262	P11	N 1530	Nomifensine maleate	1,2,3,4-Tetrahydro-2-methyl-4-phenyl-8-isoquinolinamine maleate	Dopamine		Inhibitor	Reuptake	Dopamine reuptake inhibitor; antidepressant
3262	P13	N 3529	NAN-190 hydrobromide	1-(2-Methoxyphenyl)-4-[4-(2-phthalimido)butyl]piperazine hydrobromide	Serotonin		Antagonist	5-HT1A	Potent 5-HT1A serotonin receptor antagonist that lacks TFMP-like stimulus properties
3262	P15	N 5023	Nordihydroguaiaretic acid from Larrea divaricata (creosote bush)	NDGA	Leukotriene	Enzyme	Inhibitor	Lipoxygenase	Lipoxygenase inhibitor
3262	P17	N 7505	NADPH tetrasodium	Reduced nicotinamide adenosine dinucleotide phosphate tetrasodium	Nitric Oxide	Enzyme	Cofactor		Cofactor for many enzymes, including nitric oxide synthase
3262	P19	N 8534	Nilutamide	Anandron	Hormone		Inhibitor	Androgen	Antiandrogen
3262	P21	N-142	NO-711 hydrochloride	1-(2-(((Diphenylmethylene)imino)oxy)ethyl)-1,2,5,6-tetrahydro-3-pyridine-carboxylic acid hydrochloride	GABA		Inhibitor	Uptake	Potent and selective GABA uptake inhibitor.
3262	B04	N-144	Nitrendipine	1,4-Dihydro-2,6-dimethyl-4-(3-nitrophenyl)-3,5-pyridinecarboxylic acid ethyl methyl ester	Ca2+ Channel		Antagonist	L-type	Ca2+ channel blocker; antihypertensive
3262	B06	PZ0135	PHA-543613	N-[(3R)-1-Azabicyclo[2.2.2]oct-3-yl]furo[2,3-c]pyridine-5-carboxamide	Neurotransmission		Agonist	a7 nAChR	PHA-543613 is a potent selective a7 nAChR agonist.
3262	B08	O 0886	Olomoucine	2-[[9-Methyl-6-[[phenylmethyl]amino]-9H-purin-2-yl]amino]-ethanol	Phosphorylation	Enzyme	Inhibitor	PK	Potent and selective inhibitor of cdc2, cdk and cyclin-dependent kinases
3262	B10	O 3752	Orphenadrine hydrochloride	beta-Dimethylaminoethyl 2-methylbenzhydrol ether hydrochloride	Cholinergic		Antagonist	Muscarinic	Muscarinic acetylcholine receptor antagonist; H1 histamine receptor antagonist
3262	B12	O-111	(±)-Octoclothebin maleate	1-(8-Chloro-10,11-dihydrobenzo[b,f]thiepin-10-yl)-4-methyl-piperazine maleate	Dopamine		Antagonist	D2	D2 Dopamine receptor antagonist; serotonin receptor antagonist
3262	B14	P 0878	O-Phospho-L-serine	L-Phosphoserine	Glutamate		Antagonist	NMDA	Competitive NMDA glutamate receptor antagonist with close structural similarity to L-glutamate
3262	B16	P 1918	Pancuronium bromide	1,1'-([2beta,3alpha,5alpha,16beta,17beta]-3,17-Bis[acetyloxy]androstane-2,16-diy)bis(1-methylpiperidinium) dibromide	Cholinergic		Antagonist		Aminosteroidal neuromuscular blocking agent; skeletal muscle relaxant
3262	B18	P 3520	Pentolinium di[L(+)-tartrate]	1,1'-Pentamethylenebis(1-methylpyrrolidinium hydrogen tartrate)	Cholinergic		Antagonist	Nicotinic	Peripheral ganglionic nicotinic acetylcholine receptor antagonist
3262	B20	P 4543	Valproic acid sodium	2-Propylpentanoic acid sodium	Anticonvulsant				Anticonvulsant
3262	B22	P 5514	Pyrilamine maleate	Mepyramine maleate	Histamine		Antagonist	H1	H1 Histamine receptor antagonist
3262	D04	N-149	Nimodipine	1,4-Dihydro-2,6-dimethyl-4-(3-nitrophenyl)-3,5-pyridinecarboxylic acid 2-methoxyethyl 1-methylethyl ester	Ca2+ Channel		Antagonist	L-type	Potent L-type Ca2+ channel antagonist
3262	D06	N-170	NS-1619	1,3-Dihydro-1-[2-hydroxy-5-(trifluoromethyl)phenyl]-5-(trifluoromethyl)-2H-benzimidazol-2-one	K+ Channel		Activator	Ca2+ activated	Selective large conductance Ca2+-activated K+-channel activator
3262	D08	O 1008	Oleic Acid	Elainic acid	Phosphorylation	Enzyme	Activator	PKC	Activates protein kinase C in hepatocytes; uncouples oxidative phosphorylation
3262	D10	T 5575	TG003	(Z)-1-(3-Ethyl-5-methoxy-2,3-dihydrobenzothiazol-2-ylidene)-propan-2-one	Cell Cycle	Enzyme	Inhibitor	Clk	Potent, specific, and reversible Cdc2-like kinase (Clk) inhibitor. Competes with ATP.

ICCB-L Plate	ICCB-L Well	Vendor ID	Compound Name	Sec Name	Class	Enzyme	Action	Selectivity	Description
3262	D12	P 0130	Progesterone	4-Pregnene-3,20-dione	Hormone			Progesterone	Suppresses ovulation; induces maturation and secretory activity of the uterine endothelium
3262	D14	P 0884	(±)-Propranolol hydrochloride	(±)-1-(Isopropylamino)-3-(1-naphthylloxy)-2-propanol hydrochloride	Adrenoceptor		Antagonist	beta	beta Adrenoceptor antagonist; cardiac depressant (anti-arrhythmic)
3262	D16	P 2016	3-alpha,21-Dihydroxy-5-alpha-pregnan-20-one	5-alpha-THDOC	GABA		Modulator	GABA-A	Positive allosteric modulator of GABA-A receptors
3262	D18	P 4015	1-Phenyl-3-(2-thiazolyl)-2-thiourea		Dopamine	Enzyme	Inhibitor	beta-Hydroxylase	Dopamine beta-hydroxylase inhibitor
3262	D20	P 4651	Promethazine hydrochloride		Histamine		Antagonist	H1	H1 Histamine receptor antagonist; anticholinergic
3262	D22	P 5654	Piroxicam	4-Hydroxy-2-methyl-3-(pyrid-2-yl-carbamoyl)-2H-1,2-benzothiazine 1,1-dioxide	Prostaglandin	Enzyme	Inhibitor	COX	Cyclooxygenase (COX) inhibitor
3262	F04	N-151	Nisoxetine hydrochloride	LY-94,939	Adrenoceptor		Blocker	Reuptake	Potent and selective norepinephrine reuptake blocker
3262	F06	PZ0124	CP-66713	8-chloro-1-phenyl-[1,2,4]triazolo[4,3-a]quinoxalin-4-amine, PF-1716311	Purinergics		Antagonist	adenosine A2	CP-66713 is an adenosine A2 receptor antagonist
3262	F08	O 2378	Oxymetazoline hydrochloride	3-[(4,5-Dihydro-1H-imidazol-2-yl)methyl]-6-(1,1-dimethylethyl)-2,4-dimethylphenol hydrochloride	Adrenoceptor		Agonist	alpha2A	Partial alpha2A adrenoceptor agonist; agonist at serotonin 5-HT1A, 5-HT1B and 5-HT1D receptors and a mixed agonist-antagonist at 5-HT2C receptors
3262	F10	O 8757	Ofloxacin	Ofloxacin; DL-8280; HOE-280	Antibiotic			DNA Synthesis	Fluorinated quinolone antibacterial; interferes with DNA synthesis
3262	F12	T2705	Topotecan hydrochloride hydrate	9-[(dimethylamino)methyl]-10-hydroxy-(20S)-camptothecin hydrochloride hydrate, NSC-609669 hydrochloride hydrate, SKF-104864A hydrochloride hydrate, hycamptamine hydrochloride hydrate	Apoptosis and Cell Cycle	Enzyme	Inhibitor	topoisomerase I	Topotecan is a topoisomerase I inhibitor and an apoptosis inducer. It is a potent antineoplastic agent
3262	F14	P 1061	SKF-525A hydrochloride	Proadifen hydrochloride	Multi-Drug Resistance	Enzyme	Inhibitor	Microsomal oxidation	Inhibitor of microsomal drug metabolism
3262	F16	P 2116	Pirfenidone	5-Methyl-1-phenyl-2-(1H)-pyridone	Immune System		Inhibitor		Inhibitor of collagen production and fibroblast proliferation
3262	F18	T 9567	Thiolactomycin	[R-(E)]-4-hydroxy-3,5-dimethyl-5-(2-methyl-1,3-butadienyl)-2(5H)-thiophenone	Antibiotic	Enzyme	Inhibitor	Myristate synthesis	Inhibits bacterial, not eukaryotic, myristate synthesis. Effective as antitrypanosomal and antimalarial.
3262	F20	P 4668	Praziquantel	2-(Cyclohexylcarbonyl)-1,2,3,6,7-11b-hexahydro-4H-pyrazino(2,1a)isoquinolin-4-one	Antibiotic			Ca2+ Ionophore	Ca2+ Ionophore; anthelmintic
3262	F22	P 5679	3-n-Propylxanthine	Enprofylline	Adenosine		Antagonist	A1 > A2	Weak competitive antagonist at both A1 and A2 adenosine receptors
3262	H04	N-153	Nylidrin hydrochloride		Adrenoceptor		Agonist	beta	beta Adrenoceptor agonist; peripheral vasodilator
3262	H06	N-183	NBQX disodium	FG9202 disodium	Glutamate		Antagonist	AMPA/kainate	Neuroprotective AMPA/kainate glutamate receptor antagonist; water soluble salt of NBQX
3262	H08	O 2751	Sodium Oxamate	Oxalic acid monoamide sodium salt	Biochemistry	Enzyme	Inhibitor	Lactate Dehydrogenase	Competitive lactate dehydrogenase inhibitor
3262	H10	O 9126	Oxotremorine sesquifumarate salt	1-(4-[1-Pyrrolidinyl]-2-butynyl)-2-pyrrolidinone	Cholinergic		Agonist	M2	Muscarinic acetylcholine receptor agonist with preference for the M2 receptor
3262	H12	P 0453	Piceatannol	(E)-4-[2-(3,5-Dihydroxyphenyl)ethenyl]1,2-benzenediol	Phosphorylation	Enzyme	Inhibitor	Syk / Lck	Non-receptor kinase Syk and Lck inhibitor
3262	H14	P 1675	Picrotoxin		GABA		Antagonist	GABA-C	GABA-C receptor antagonist; powerful, nonspecific CNS stimulant isolated from Anamirta cocculin
3262	H16	P 2278	1,3-Dimethyl-8-phenylxanthine	8-Phenyltheophylline	Adenosine		Antagonist	A1	Selective A1 adenosine receptor antagonist
3262	H18	P 4394	Cisplatin	cis-Diammineplatinum(II) dichloride	DNA		Intercalator		Induces intrastrand DNA crosslinks; effects are regulated by kinases, phosphatases and Ca2+/calmodulin
3262	H20	P 4670	Propafenone hydrochloride	1-(2-[2-Hydroxy-3-(propylamino)propoxy]phenyl)-3-phenyl-1-propanone	K+ Channel		Blocker	hKv1.5	Blocks hKv1.5 and ATP-sensitive K+ channels; beta-adrenoceptor antagonist
3262	H22	P 6126	Phenylephrine hydrochloride		Adrenoceptor		Agonist	alpha1	alpha1 Adrenoceptor agonist; mydriatic; decongestant
3262	J04	S 8061	SB 242084 dihydrochloride hydrate	6-Chloro-2,3-dihydro-5-methyl-N-[6-[(2-methyl-3-pyridinyl)oxy]-3-pyridinyl]-1H-indole-1-carboxamide dihydrochloride hydrate	Serotonin		Antagonist	5-HT2c	Selective 5-HT2c serotonin receptor antagonist; crosses the blood-brain barrier
3262	J06	N-211	NS 2028	4H-8-Bromo-1,2,4-oxadiazolo(3,4-d)benz(b)(1,4)oxazin-1-one	Cyclic Nucleotides	Enzyme	Inhibitor	Guanylate cyclase	Specific soluble guanylyl cyclase inhibitor
3262	J08	O 2881	Oxybutynin Chloride	alpha-Phenylcyclohexanecarboxylic acid 4-(diethylamino)-2-butynyl ester hydrochloride	Cholinergic		Antagonist	Muscarinic	Muscarinic acetylcholine receptor antagonist

ICCB-L Plate	ICCB-L Well	Vendor ID	Compound Name	Sec Name	Class	Enzyme	Action	Selectivity	Description
3262	J10	T1452	Trandolapril	(2S,3aR,7aS)-1-[(2S)-2-[[[(1S)-1-(ethoxycarbonyl)-3-phenylpropyl]amino]-1-oxopropyl]octahydro-1H-Indole-2-carboxylic acid	Neurotransmission	Enzyme	Inhibitor	ACE	Angiotensin converting enzyme (ACE) inhibitor.
3262	J12	P 0547	Pentamidine isethionate	4'-[1,5-Pentanediy]bis(oxy)]bis-benzenecarboximidamide isethionate	Glutamate		Antagonist	NMDA	NMDA glutamate receptor antagonist; neuroprotective agent; antimicrobial agent prescribed for the treatment of AIDS-associated Pneumocystis carinii pneumonia
3262	J14	L9793	LP44	4-[2-(Methylthio)phenyl]-N-(1,2,3,4-tetrahydro-1-naphth alenyl)-1-piperazinehexanamide hydrochloride	Serotonin		Agonist	5-HT7	A high affinity 5-HT7 receptor agonist.
3262	J16	P 2607	PRE-084		Opioid		Agonist	sigma1	Potent and highly selective sigma1 receptor agonist
3262	J18	P 4405	Podophyllotoxin		Cytoskeleton and ECM		Inhibitor		Antineoplastic glucoside; inhibitor of microtubule assembly
3262	J20	P 5052	5alpha-Pregnan-3alpha-ol-11,20-dione	Alfaxalone	GABA		Modulator	GABA-A	Neurosteroid that acts as a positive allosteric modulator of the GABA-A receptor; anesthetic
3262	J22	P 6402	Perphenazine		Dopamine		Antagonist	D2	D2 dopamine receptor antagonist; sigma receptor agonist; phenothiazine antipsychotic
3262	L04	N-156	Nalttriben methanesulfonate	NTB	Opioid		Antagonist	delta2	Highly selective delta2 opioid receptor antagonist
3262	L06	O 0250	(±)-Octopamine hydrochloride	(±)-alpha-(Aminomethyl)-4-hydroxybenzyl alcohol hydrochloride	Adrenoceptor		Agonist	alpha	Neurotransmitter
3262	L08	O 3011	Oxiracetam	4-Hydroxy-2-oxopyrrolidine-N-acetamide	Nootropic				Nootropic agent, improves learning and memory, and prevents impairment of cognitive functions
3262	L10	S 3442	SB 216763	3-(2,4-Dichlorophenyl)-4-(1-methyl-1H-indol-3-yl)-1H-pyrrole-2,5-dione	Phosphorylation	Enzyme	Inhibitor	GSK-3	Potent, selective, cell permeable inhibitor of glycogen synthetase kinase-3 (GSK-3).
3262	L12	T 0826	TBB	NSC 231634; 4,5,6,7-Tetrabromo-2-azabenzimidazole	Phosphorylation	Enzyme	Inhibitor	Casein kinase 2	Highly selective, ATP/GTP-competitive inhibitor of casein kinase 2 (CK2).
3262	L14	P 1784	Pentoxifylline	3,7-Dihydro-3,7-dimethyl-1-(5-oxohexyl)-1H-purine-2,6-dione	Cyclic Nucleotides	Enzyme	Inhibitor	PDE	Inhibits synthesis of tumor necrosis factor alpha (TNF-alpha); phosphodiesterase inhibitor
3262	L16	P 2738	PPNSD tetrasodium	Pyridoxal-5'-phosphate-6-(2'-naphthylazo-6'-nitro-4',8'-disulfonate) tetrasodium	P2 Receptor		Antagonist	P2X1	P2X1 receptor antagonist
3262	L18	N 4286	NU2058	O6-Cyclohexylmethylguanidine	Cell Cycle	Enzyme	Inhibitor	Cdk2	Selective cyclin-dependent kinase-2 (CDK2) inhibitor.
3262	L20	P6499	PNU-282987	N-(3R)-1-Azabicyclo[2.2.2]oct-3-yl-4-chloro-benzamide monohydrochloride	Cholinergic		Agonist	Nicotinic alpha7	Selective alpha7 nicotinic acetylcholine receptor (nAChR) agonist.
3262	L22	P 6500	Pentylentetrazole	Metrazole	Neurotransmission		Modulator	CNS	Non-specific CNS stimulant; convulsant
3262	N04	N-158	Naftopidil dihydrochloride	KT-611 dihydrochloride	Adrenoceptor		Antagonist	alpha1	alpha1 Adrenoceptor antagonist; antihypertensive
3262	N06	O 0383	N-Oleylethanolamine	N-(Hydroxyethyl)oleamide	Sphingolipid	Enzyme	Inhibitor	Ceramidase	Ceramidase inhibitor; inhibits sphingolipid signaling pathway
3262	N08	O 3125	Ouabain	Acocantherine	Ion Pump		Inhibitor	Na+/K+ ATPase	Blocks movement of the H5 and H6 transmembrane domains of Na+-K+ ATPases
3262	N10	O 9637	Oxaprozin	Daypro	Prostaglandin	Enzyme	Inhibitor		Non-steroidal anti-inflammatory drug (NSAID)
3262	N12	P 0667	Parthenolide		Serotonin		Inhibitor		Inhibits serotonin release from platelets; inhibits production of leukotriene B4 and thromboxane B2
3262	N14	P 1793	Pimozide		Dopamine		Antagonist	D2	Ca2+ channel antagonist; antipsychotic; D2 dopamine receptor antagonist
3262	N16	A 0233	AS605240	5-(6-Quinoxalinylmethylene)-2,4-thiazolidinedione	Biochemistry	Enzyme	Inhibitor	P13K	AS605240 is a potent and selective PI3K inhibitor
3262	N18	P 4509	Palmitoyl-DL-Carnitine chloride		Phosphorylation	Enzyme	Modulator	PKC	Long-chain acylcarnitine; modulator of PKC activation; intermediate in mitochondrial fatty acid oxidation
3262	N20	P 5295	Piracetam	2-Oxo-1-pyrrolidineacetamide	Glutamate		Modulator	AMPA	Prototypical nootropic; modulates Na+-flux at AMPA glutamate receptors
3262	N22	P 6503	(+)-Pilocarpine hydrochloride		Cholinergic		Agonist	Muscarinic	Cholinergic receptor agonist
3262	P04	B 2185	Bisoprolol hemifumarate salt	1-[4-[[2-(1-Methylethoxy)ethoxy]methyl]phenoxy]-3-[(1-methylethyl)amino]-2-propanol	Adrenoceptor		Antagonist	Beta1	Cardioselective Beta1-adrenoceptor antagonist. Actual molecular weight is 383.48
3262	P06	O 0877	Oxolinic acid	W-4565; 5,8-Dihydro-5-ethyl-8-oxo-1,3-dioxolo[4,5-g]quinoline-7-carboxylic acid	Antibiotic	Enzyme	Inhibitor	DNA Gyrase	Quinolone antibacterial; DNA gyrase inhibitor
3262	P08	O 3636	ODQ	1H-[1,2,4]Oxadiazolo[4,3-a]quinoxalin-1-one	Cyclic Nucleotides	Enzyme	Inhibitor	NO-sensitive guanylyl cyclase	Potent and selective NO-sensitive guanylyl cyclase inhibitor

ICCB-L Plate	ICCB-L Well	Vendor ID	Compound Name	Sec Name	Class	Enzyme	Action	Selectivity	Description
3262	P10	O-100	Oxotremorine methiodide	N,N,N-Trimethyl-4-(2-oxo-1-pyrrolidinyl)-2-butyn-1-ammonium iodide	Cholinergic		Agonist	Muscarinic	Nonselective muscarinic acetylcholine receptor agonist
3262	P12	P 0778	Pindolol		Adrenoceptor		Antagonist	beta	Nonselective beta adrenoceptor antagonist; vasodilator
3262	P14	P 1801	L-Glutamic acid, N-phthaloyl-		Glutamate		Agonist	NMDA	Selective NMDA glutamate receptor agonist
3262	P16	P 3510	Papaverine hydrochloride		Cyclic Nucleotides	Enzyme	Inhibitor	PDE	Phosphodiesterase inhibitor
3262	P18	P 4532	R(-)-N6-(2-Phenylisopropyl)adenosine	R(-)-PIA	Adenosine		Agonist	A1	A1 Adenosine receptor agonist
3262	P20	P 5396	Phosphomycin disodium	Fosfomycin; Phosphonomycin; MK-955	Antibiotic			Cell wall synthesis	Antibiotic; interferes with cell wall synthesis
3262	P22	P 6628	Pilocarpine nitrate		Cholinergic		Agonist	Muscarinic	Nonselective muscarinic acetylcholine receptor agonist
3263	A03	P 6656	Promazine hydrochloride	10-(3-[Dimethylamino]propyl)phenothiazine hydrochloride	Dopamine		Antagonist	D2	D2 dopamine receptor antagonist; phenothiazine antipsychotic
3263	A05	P 7412	Pirenzepine dihydrochloride	5,11-Dihydro-11-[[4-methyl-1-piperazinyl]acetyl]-6H-pyrido[2,3-b][1,4]benzodiazepin-6-one dihydrochloride	Cholinergic		Antagonist	M1	Selective M1 muscarinic acetylcholine receptor antagonist
3263	A07	PZ0112	PD-184161	Cefovecin, PF-1529483, PF-3011370, UK-287074, 5-Bromo-2-[(2-chloro-4-iodophenyl)amino]-N-(cyclopropylmethoxy)-3,4-difluorobenzamide	Kinase	Enzyme	Inhibitor	MEK	PD-184161 is a MEK inhibitor.
3263	A09	P 8782	(±)-cis-Piperidine-2,3-dicarboxylic acid		Glutamate		Agonist	NMDA	Excitatory amino acid; NMDA glutamate receptor agonist
3263	A11	P 9233	Piribedil maleate	2-(4-[1,3-Benzodioxol-5-ylmethyl]-1-piperazinyl)pyrimidine	Dopamine		Agonist	D3	Non-selective dopamine receptor agonist
3263	A13	P 9879	Procaine hydrochloride	Novocaine hydrochloride	Na+ Channel		Blocker		Na+ channel blocker
3263	A15	P-118	Phaclofen	3-Amino-2-(4-chlorophenyl)propylphosphonic acid	GABA		Antagonist	GABA-B	GABA-B receptor antagonist
3263	A17	P-162	Pregnenolone sulfate sodium	5-Pregnen-3beta-ol-20-one sulfate sodium	GABA		Antagonist	GABA-A	Neurosteroid that antagonizes the GABA-A receptor chloride channels
3263	A19	P-233	PD 168,077 maleate	N-[[4-(2-Cyanophenyl)-1-piperazinyl]methyl]-3-methylbenzamide maleate	Dopamine		Agonist	D4	Selective D4 dopamine receptor agonist
3263	A21	Q 3251	Quinacrine dihydrochloride		Neurotransmission	Enzyme	Inhibitor	MAO	Monoamine oxidase (MAO) inhibitor; antimalarial
3263	C03	P 6777	Phenelzine sulfate		Neurotransmission	Enzyme	Inhibitor	MAO-A/B	Non-selective MAO-A/B inhibitor
3263	C05	P 7505	Putrescine dihydrochloride	Putrescine dihydrochloride	Glutamate		Agonist	NMDA-Polyamine	Binds to the polyamine modulatory site of the NMDA glutamate receptor and potentiates NMDA-induced currents; precursor of spermidine
3263	C07	P 8293	Protoporphyrin IX disodium	Kammerer's porphyrin	Cyclic Nucleotides	Enzyme	Activator	Guanylyl cyclase	Activates soluble guanylyl cyclase
3263	C09	P 8813	Protriptyline hydrochloride		Adrenoceptor		Blocker	Reuptake	Norepinephrine reuptake blocker
3263	C11	P 9297	Paromomycin sulfate		Antibiotic			Protein synthesis	Oligosaccharide-type antibiotic; interferes with protein synthesis
3263	C13	P-101	2-Phenylaminoadenosine	CV-1808	Adenosine		Agonist	A2 > A1	Selective A2 adenosine receptor agonist; potent vasodilator; weak inhibitor of adenosine uptake by rat cerebral cortical synaptosomes
3263	C15	B 4311	BF-170 hydrochloride	2-(4-Aminophenyl)quinoline hydrochloride	Neurodegeneration		Binder	Tau	Exhibits 3-fold greater binding affinity to tau than amyloid beta fibrils. Does not inhibit amyloid beta.
3263	C17	P-178	PPADS	Pyridoxal-phosphate-6-azophenyl-2',4'-disulphonic acid tetrasodium	P2 Receptor		Antagonist	P2	Selective P2 receptor antagonist which blocks responses at both pre- and post-junctional sites
3263	C19	S 9692	SU 6656	2,3-Dihydro-N,N-dimethyl-2-oxo-3-[[4,5,6,7-tetrahydro-1H-indol-2-yl)methylene]-1H-indole-5-sulfonamide	Phosphorylation	Enzyme	Inhibitor	Src family kinase	Selective Src family kinase inhibitor.
3263	C21	Q 3504	Quazinone	Ro 13-6438	Cyclic Nucleotides	Enzyme	Inhibitor	PDE III	Phosphodiesterase III (PDE III) inhibitor
3263	E03	P 6902	Pheniramine maleate		Histamine		Antagonist	H1	H1 histamine receptor antagonist.
3263	E05	P 7561	Phentolamine mesylate	Regitin mesylate	Adrenoceptor		Antagonist	alpha	ATP-sensitive K+ channel blocker; alpha adrenoceptor antagonist
3263	E07	PZ0113	PD173952	PD-173952, 6-(2,6-Dichlorophenyl)-8-methyl-2-(4-morpholin-4-ylphenylamino)-8H-pyrido[2,3-d]pyrimidin-7-one	Kinase	Enzyme	Inhibitor	Src	PD173952 is a Src family kinase inhibitor.
3263	E09	P 8828	Pergolide methanesulfonate	8-[(Methylthio)methyl]-6-propylergoline methanesulfonate	Dopamine		Agonist	D2/D1	Dopamine receptor agonist; antiparkinsonian

ICCB-L Plate	ICCB-L Well	Vendor ID	Compound Name	Sec Name	Class	Enzyme	Action	Selectivity	Description
3263	E11	P 9375	1,10-Phenanthroline monohydrate	o-Phenanthroline monohydrate	Biochemistry	Enzyme	Inhibitor	Metalloprotease	Metalloprotease inhibitor; chelates iron, zinc and other divalent metals
3263	E13	P-102	R(+)-3PPP hydrochloride	R(+)-3-(3-Hydroxyphenyl)-N-propylpiperidine hydrochloride	Dopamine		Agonist	D2	Binds with high selectivity to sigma receptors, yet has no affinity for phencyclidine receptors; dopamine receptor agonist
3263	E15	P-120	1-Phenylbiguanide	N-Phenyl-imidocarbonimidic diamide	Serotonin		Agonist	5-HT3	5-HT3 Serotonin receptor agonist
3263	E17	PZ0110	SC-57461A	SC-57461 hydrochloride, N-Methyl-N-[3-[4-(phenylmethyl)phenoxy]propyl β-alanine hydrochloride	Lipids	Enzyme	Inhibitor	leukotriene A4 hydrolase	SC-57461A is an inhibitor of leukotriene A4 hydrolase
3263	E19	P63204	Quinolinic acid	Pyridine-2,3-dicarboxylic acid	Glutamate		Antagonist	NMDA	Neurotoxin which has neuroexcitatory activity; metabolite of tryptophan
3263	E21	Q-102	(-)-Quinpirole hydrochloride	LY-171,555	Dopamine		Agonist	D2/D3	Selective D2-like dopamine receptor agonist with some selectivity for D3 sites
3263	G03	P 6909	Phosphonoacetic acid		DNA	Enzyme	Inhibitor	DNA Polymerase	DNA Polymerase inhibitor
3263	G05	P 7780	Propionylpromazine hydrochloride		Dopamine		Antagonist	D2	D2 dopamine receptor antagonist; phenothiazine antipsychotic
3263	G07	P 8386	Phenylbutazone		Prostaglandin	Enzyme	Substrate	Prostaglandin peroxidase	Anti-inflammatory; substrate for prostaglandin peroxidase
3263	G09	P 8852	6(5H)-Phenanthridinone		Transcription	Enzyme	Inhibitor	PARP	Poly(ADP-ribose) Polymerase (PARP) inhibitor
3263	G11	P 9391	Procainamide hydrochloride		Na+ Channel		Antagonist		Na+ channel blocker and Class I anti-arrhythmic
3263	G13	P-103	S(-)-3PPP hydrochloride	Preclamol hydrochloride	Dopamine		Agonist	D2	Dopamine autoreceptor agonist; postsynaptic dopamine receptor antagonist
3263	G15	S1323	SID7969543	2-[2-[(2,3-Dihydrobenzo[1,4]dioxin-6-ylcarbonyl)methyl]-1-oxo-1,2-dihydroisoquinolin-5-yl]oxypropionic acid ethyl ester	Gene Regulation	Enzyme	Inhibitor	SF-1	A SF-1 (or NR5A1) inhibitor.
3263	G17	P-203	Phenamil methanesulfonate	3,5-Diamino-6-chloro-N-[imino(phenylamino)methyl]-pyrazinecarboxamide methanesulfonate	Na+ Channel		Inhibitor	Amiloride sensitive	Irreversible inhibitor of amiloride-sensitive Na+ channels; derivative of amiloride
3263	G19	Q 0125	Quercetin dihydrate	3,3',4',5',7-Pentahydroxyflavone dihydrate	Cyclic Nucleotides	Enzyme	Inhibitor	PDE	Mitochondrial ATPase and phosphodiesterase (PDE) inhibitor; inhibits PI3-K activity
3263	G21	L 3169	LP 12 hydrochloride hydrate	4-(2-Diphenyl)-N-(1,2,3,4-tetrahydronaphthalen-1-yl)-1-piperazinehexanamide hydrochloride	Serotonin		Agonist	5-HT7	5-HT7 receptor agonist displaying selectivity over D2, 5-HT1A and 5-HT2A receptors
3263	I03	218359	(-)-Perillic acid	4-Isopropenyl-1-cyclohexene-1-carboxylic acid	G protein		Inhibitor	p21 Ras	Interferes with activity of p21ras and other small G proteins by inhibiting post-translational cysteine isoprenylation
3263	I05	P 7791	Prazosin hydrochloride		Adrenoceptor		Antagonist	alpha1	Peripheral alpha1 adrenoceptor antagonist
3263	I07	P 8477	Picotamide	4-Methoxy-N,N'-bis(3-pyridinylmethyl)-1,3-benzenedicarboxamide	Thromboxane		Antagonist	TXA2	Eicosenoid receptor antagonist; a thromboxane A2 antagonist; antiplatelet agent
3263	I09	P 8887	5alpha-Pregnan-3alpha-ol-20-one	Allopregnan-3alpha-ol-20-one	GABA		Modulator	GABA-A	Positive allosteric modulator of GABA-A chloride channels
3263	I11	P 9547	Prilocaine hydrochloride	N-(2-Methylphenyl)-2-(propylamino)propanamide hydrochloride	Na+ Channel		Blocker		Na+ channel blocker
3263	I13	P-105	(±)-PPHT hydrochloride	(±)-2-(N-Phenylethyl)-N-propylamino-5-hydroxytetralin hydrochloride	Dopamine		Agonist	D2	Potent D2 dopamine receptor agonist
3263	I15	P-126	Pirenperone	R-47,465	Serotonin		Antagonist	5-HT2	5-HT2 Serotonin receptor antagonist
3263	I17	P-204	Phenylbenzene-omega-phosphono-alpha-amino acid	PMBA	Glycine		Antagonist		Selective strychnine-sensitive glycine receptor antagonist
3263	I19	Q 0875	Quinidine sulfate		Na+ Channel		Antagonist		Na+ channel blocker and Class I antiarrhythmic; alkaloid isolated from the bark of the Cinchona family of South American trees
3263	I21	Q-109	Quipazine, 6-nitro-, maleate	6-Nitro-2-(1-piperziny)-quinoline maleate	Serotonin		Inhibitor	Reuptake	Potent and selective serotonin reuptake inhibitor
3263	K03	P 7136	Pyrazinecarboxamide	Pyrazinoic acid amide; pyrazinamide; PZA	Antibiotic				Antibiotic; tuberculostatic
3263	K05	P 7912	Phloretin	3-(4-Hydroxyphenyl)-1-(2,4,6-trihydroxyphenyl)-1-propanone	Ca2+ Channel		Blocker	L-Type	Blocks L-type Ca2+ channels
3263	K07	P 8511	Tranlycypromine hydrochloride	(±)-trans-2-Phenylcyclopropylamine hydrochloride	Neurotransmission	Enzyme	Inhibitor	MAO	MAO inhibitor; antidepressant

ICCB-L Plate	ICCB-L Well	Vendor ID	Compound Name	Sec Name	Class	Enzyme	Action	Selectivity	Description
3263	K09	P 8891	Propantheline bromide	(2-Hydroxyethyl)diisopropylmethylammonium bromide xanthen-9-carboxylate bromide	Cholinergic		Antagonist	Muscarinic	Muscarinic acetylcholine receptor antagonist; antispasmodic
3263	K11	P 9689	Propentofylline	HWA 285	Adenosine		Inhibitor	Transporter	Nerve growth factor stimulator; adenosine transport inhibitor; non-selective adenosine receptor antagonist
3263	K13	B5063	BMS-193885	1,4-dihydro-4-[3-[[[3-[4-(3-methoxyphenyl)-1-piperidinyl]propyl]amino]carbonyl]amino]phenyl]-2,6-dimethyl-3,5-dimethyl ester-3,5-pyridinedicarboxylic acid	Neurotransmission		Antagonist	Y1	BMS-193885 is a potent, selective Y1 antagonist that is active in both acute and chronic animal models of food intake
3263	K15	I 0658	IC 261	1,3-Dihydro-3-[(2,4,6-trimethoxyphenyl)methylene]-2H-indol-2-one	Phosphorylation	Enzyme	Inhibitor	CK-1delta/epsilon	Casein kinase-1 (CK-1delta/epsilon) inhibitor.
3263	K17	B 5556	Bay 11-7082	(E)-3-(4-Methylphenylsulfonyl)-2-propenenitrile	Phosphorylation		Inhibitor	IKB-alpha	Inhibitor of cytokine-induced IKB-alpha phosphorylation
3263	K19	S 8197	SMER28	6-Bromo-N-2-propenyl-4-quinazolinamine	Cell Biology		Enhancer	Autophagy	Small molecule modulator of mammalian autophagy.
3263	K21	Q-110	Quinelorane dihydrochloride	LY-163,502	Dopamine		Agonist	D2	D2 Dopamine receptor agonist; 2-aminopyridine analog of Quinpirole
3263	M03	P 7295	Primidone		Anticonvulsant				Anticonvulsant
3263	M05	P 8013	Pargyline hydrochloride	N-Methyl-N-2-propynylbenzylamine hydrochloride	Neurotransmission	Enzyme	Inhibitor	MAO-B	MAO inhibitor, relatively selective for MAO-B
3263	M07	P 8688	(S)-Propranolol hydrochloride	(S)-1-Isopropylamino-3-(1-naphthoxy)-2-propanol hydrochloride	Adrenoceptor		Blocker	beta	Active beta-adrenoceptor receptor blocking enantiomer; 5-HT1 serotonin receptor antagonist
3263	M09	K 1015	K114	trans,trans)-1-Bromo-2,5-bis-(4-hydroxy)styrylbenzene	Neurotransmission			Amyloid probe	A fluorescent, amyloid-specific dye, an analogue of Congo Red and BSB that recognizes amyloid lesions and allows the quantitative monitoring of the formation of amyloid fibrils assembled from the Aβ peptide, a-synuclein, and tau.
3263	M11	Z2777	Ziprasidone hydrochloride monohydrate	5-[2-[4-(1,2-Benzisothiazol-3-yl)-1-piperazinyl]ethyl]-6-chloro-1,3-dihydro-2H-indol-2-one hydrochloride monohydrate; Geodon	Neurotransmission			Antipsychotic	Atypical antipsychotic; FDA approved for the treatment of schizophrenia.
3263	M13	B9061	Bicalutamide (CDX)	N-[4-Cyano-3-(trifluoromethyl)phenyl]-3-[(4-fluorophenyl)sulfonyl]-2-hydroxy-2-methylpropanamide; Casodex	Gene Regulation		Antagonist	AR	A non-steroidal Androgen Receptor (AR) antagonist and a pure antiandrogen.
3263	M15	A 1980	A3 hydrochloride	N-(2-Aminoethyl)-5-chloronaphthalene-1-sulfonamide hydrochloride	Phosphorylation	Enzyme	Inhibitor	Casein kinase	Non-selective casein kinase (CK) inhibitor.
3263	M17	P-215	PD 98,059	2-(2-Amino-3-methoxyphenyl)-4H-1-benzopyran-4-one	Phosphorylation	Enzyme	Inhibitor	MEK2	Specific inhibitor of the activation of mitogen-activated protein kinase kinase (MAPKK)
3263	M19	Q 1250	Quinine sulfate		K+ Channel		Antagonist		K+ channel blocker; antimalarial, anticholinergic, antihypertensive and hypoglycemic agent; alkaloid isolated from the bark of the Cinchona family of South American trees
3263	M21	Q-111	(±)-Quinpirole dihydrochloride	LY-141,865	Dopamine		Agonist	D2 > D3	Selective D2-like dopamine receptor agonist which possesses some activity at D3 dopamine receptors
3263	O03	P 7340	(±)-threo-1-Phenyl-2-decanoylamino-3-morpholino-1-propanol hydrochloride	PDMP hydrochloride	Sphingolipid	Enzyme	Inhibitor	Glucosylceramide synthase	Glucosylceramide synthase inhibitor; blocks formation of glucosylceramide from ceramide
3263	O05	P 8139	Phorbol 12-myristate 13-acetate	PMA	Phosphorylation	Enzyme	Activator	PKC	Activates protein kinase C in vivo and in vitro; strong NO promoter; promotes expression of iNOS in cultured hepatocytes; T lymphocyte activator
3263	O07	P 8765	Ammonium pyrrolidinedithiocarbamate	APDC	Nitric Oxide	Enzyme	Modulator	NOS	Prevents induction of nitric oxide synthase (NOS) by inhibiting translation of NOS mRNA
3263	O09	P 9178	Prochlorperazine dimaleate		Dopamine		Antagonist		Antipsychotic agent; used in the treatment of spastic gastrointestinal disorders
3263	O11	P 9797	Pyridostigmine bromide		Cholinergic	Enzyme	Inhibitor	Cholinesterase	Cholinesterase inhibitor
3263	O13	E9658	Enalaprilat dihydrate	Vasotec, (2S)-1-[(2S)-2-[[[(1S)-1-Carboxy-3-phenylpropyl]amino]propanoyl]pyrrolidine-2-carboxylic acid	Neurotransmitters	Enzyme	Inhibitor		Enalaprilat is an inhibitor of angiotensin converting enzyme (ACE), antihypertensive, and a Bradykinin B1 receptor activator. Enalaprilat has nM potency versus ACE and also activates B1 receptors to release NO.
3263	O15	P-154	Pinacidil	(±)-N-Cyano-N'-4-pyridinyl-N''-(1,2,2-trimethylpropyl)-guanidine	K+ Channel		Activator		K+ channel activator; antihypertensive
3263	O17	P-216	(±)-PD 128,907 hydrochloride	PD 125,530	Dopamine		Agonist	D3	Selective D3 dopamine receptor agonist

ICCB-L Plate	ICCB-L Well	Vendor ID	Compound Name	Sec Name	Class	Enzyme	Action	Selectivity	Description
3263	O19	Q 2128	(+)-Quisqualic acid	L(+)-alpha-Amino-3,5-dioxo-1,2,4-oxadiazolidine-2-propanoic acid	Glutamate		Agonist	AMPA	Active enantiomer of quisqualic acid; excitatory amino acid at glutamate receptors; anthelmintic agent
3263	O21	R 0500	Cortexolone	11-Deoxycortisol	Hormone		Precursor	Cortisol	Precursor of cortisol biosynthesis
3263	A04	R 0758	Ritodrine hydrochloride	N-(p-Hydroxyphenethyl)-4-hydroxynorephedrine hydrochloride	Adrenoceptor		Agonist	beta2	beta2-Adrenoceptor agonist; relaxes uterine muscle contractions
3263	A06	PZ0102	CP-93129 dihydrochloride hydrate	1,4-Dihydro-3-(1,2,3,6-tetrahydro-4-pyridinyl)-5H-pyrrol[3,2-b]pyridin-5-one dihydrochloride hydrate	Serotonergics		Agonist	5-HT1B	CP-93129 is a potent and selective 5-HT1B agonist.
3263	A08	R 8900	Ro 8-4304	(4-[3-(4-[4-fluorophenyl]-3,6-dihydro-2H-pyridin-1-yl)-2-hydroxypropoxy]benzamide	Glutamate		Antagonist	NMDA-NR2B	NR2B-selective, noncompetitive NMDA receptor antagonist
3263	A10	R-108	Ro 41-0960	2'-Fluoro-3,4-dihydroxy-5-nitrobenzophenone	Neurotransmission	Enzyme	Inhibitor	COMT	Specific, reversible, orally-active COMT-inhibitor
3263	A12	R-140	Ro 04-6790 dihydrochloride	4-Amino-N-[2,6-bis(methylamino)-4-pyrimidinyl]-benzenesulfonamide dihydrochloride	Serotonin		Antagonist	5-HT6	Selective 5-HT6 serotonin receptor antagonist.
3263	A14	A 6733	Auranofin	SKF 39162, 1-Thio-β-D-glucopyranosatotriethylphosphine gold-2,3,4,6-tetraacetate, 3,4,5-Triacetyloxy-6-(acetyloxymethyl)oxane-2-thiolate triethylphosphonium	Phosphorylation	Enzyme	Inhibitor		Inhibits the release of inflammatory mediators from human macrophages, basophils, and pulmonary mast cells. Inhibits 5-lipoxygenase in human neutrophils. Is a potent inhibitor of selenoenzyme thioredoxin reductase (TrxR). Auranofin inhibits IKB kin...
3263	A16	S 2501	Spermidine trihydrochloride	N-(3-Aminopropyl)-1,4-butanediamine trihydrochloride	Glutamate		Ligand	NMDA-Polyamine	Binds to the polyamine modulatory site of the NMDA glutamate receptor
3263	A18	S7947	Stattic	6-Nitrobenzo[b]thiophene-1,1-dioxide	Gene Regulation	Enzyme	Inhibitor	STAT3	Irreversible STAT3 activation inhibitor.
3263	A20	I 5409	IRAK-1/4 Inhibitor I	1-(2-(4-Morpholinyl)ethyl)-2-(3-nitrobenzoylamino)benzimidazole	Phosphorylation	Enzyme	Inhibitor	IRAK-1/4	A novel benzimidazole that is a potent inhibitor of interleukin-1 receptor-associated kinases 1/4 (IRAK 1/4).
3263	A22	S 8010	(±)-Sulpiride	(±)-5-(Aminosulfonyl)-N-[(1-ethyl-2-pyrrolidinyl)methyl]-2-methoxybenzamide	Dopamine		Antagonist	D2	D2 Dopamine receptor antagonist; antipsychotic
3263	C04	R 1402	Raloxifene hydrochloride	LY 139481	Hormone		Modulator	ER	Estrogen receptor modulator; anti-estrogenic drug
3263	C06	R 5648	Rottlerin	Mallotoxin	Phosphorylation	Enzyme	Inhibitor	PKC / CaM Kinase III	PKC and CaM kinase III inhibitor
3263	C08	R 9525	RX 821002 hydrochloride	2-[2-(2-Methoxy-1,4-benzodioxanyl)-imidazole hydrochloride	Adrenoceptor		Antagonist	alpha2	Selective alpha2-adrenoceptor antagonist
3263	C10	R-115	Reactive Blue 2	Basilen blue E-3G	P2 Receptor		Antagonist	P2Y	P2Y receptor antagonist; most potent antagonist for ATP-activated channels
3263	C12	S 0278	(±)-Sotalol hydrochloride	N-(4-[1-Hydroxy-2-(isopropylamino)ethyl]phenyl)methanesulfonamide hydrochloride	Adrenoceptor		Antagonist	beta	Potent beta-adrenoceptor antagonist, a class III antiarrhythmic; prolongs the action potential and increases the refractory period
3263	C14	S 1563	SKF 86466	6-Chloro-2,3,4,5-tetrahydro-3-methyl-1H-3-benzazepine hydrochloride	Adrenoceptor		Antagonist	alpha2	Potent and selective alpha2 adrenoceptor antagonist
3263	C16	S 2812	SNC80	(+)-4-[(alphaR)-alpha-((2S,5R)-4-Allyl-2,5-dimethyl-1-piperazinyl)-3-methoxybenzyl]-N,N-diethylbenzamide	Opioid		Agonist	delta	delta Opioid receptor agonist
3263	C18	O 2139	N-Oleoyldopamine	OLDA	Neurotransmission		Ligand	CB1	Endogenous vanilloid; weak CB1 cannabinoid receptor ligand.
3263	C20	S 7389	SB 269970 hydrochloride	[R]-3-[2-(2-[4-Methyl-piperidin-1-yl]ethyl)pyrrolidine-1-sulfonyl]phenol hydrochloride	Serotonin		Antagonist	5-HT7	Selective 5-HT7 serotonin receptor antagonist
3263	C22	PZ0116	PD-166285 hydrate	6-(2,6-Dichlorophenyl)-2-[[4-[2-(diethylamino)ethoxy]phenyl]amino]-8-methyl-pyrido[2,3-d]pyrimidin-7(8H)-one dihydrochloride hydrate	Kinase/Phosphatase	Enzyme	Inhibitor	Src, FGFR	PD-166285 hydrate is a broad spectrum protein tyrosine kinase inhibitor; Src and FGFR kinase inhibitor
3263	E04	R 2625	Retinoic acid	Vitamin A acid	Apoptosis	Enzyme	Activator		Induces caspase-dependent apoptosis

ICCB-L Plate	ICCB-L Well	Vendor ID	Compound Name	Sec Name	Class	Enzyme	Action	Selectivity	Description
3263	E06	R 6152	Ranolazine dihydrochloride	N-(2,6-Dimethylphenyl)-4-[2-hydroxy-3-(2-methoxyphenoxy)propyl]-1-piperazineacetamide dihydrochloride; (±) 4-[2-hydroxy-3-(o-methoxyphenoxy)propyl]-1-piperazineaceto-2',6'-xylidide dihydrochloride	Lipid	Enzyme	Inhibitor	pFOX	pFOX (partial fatty acid oxidation) inhibitor
3263	E08	R 9644	Ribavirin	1-beta-D-Ribofuranosyl-1,2,4-triazole-3-carboxamide	Cell Cycle	Enzyme	Inhibitor	IMP dehydrogenase	Antiviral agent; its metabolite, ribavirin 5'-phosphate, is an inhibitor of inosine monophosphate (IMP) dehydrogenase
3263	E10	R-116	Riluzole	2-Amino-6-(trifluoromethoxy)-benzothiazole	Glutamate		Antagonist	Release	Glutamate release inhibitor; anticonvulsant
3263	E12	S 0441	SB-366791	Vanilloid receptor-1 antagonist	Vanilloid		Antagonist	VR1	Vanilloid receptor-1 (VR1) antagonist
3263	E14	PZ0103	CP-346086 dihydrate	4'-Trifluoromethyl-biphenyl-2-carboxylic acid [2-(2H-[1,2,4]triazol-3-ylmethyl)-1,2,3,4-tetrahydro-isoquinolin-6-yl]amide dihydrate	Lipids	Enzyme	Inhibitor	triglyceride transfer protein	CP-346086 is microsomal triglyceride transfer protein inhibitor
3263	E16	S 2816	SKF 83959 hydrobromide	6-chloro-7,8-dihydroxy-3-methyl-1-(3-methylphenyl)-2,3,4,5-tetrahydro-1H-3-benzazepine hydrobromide	Dopamine		Agonist	D1	Atypical D1 dopamine receptor agonist; displays antagonist activity in vitro and agonist activity in vivo
3263	E18	S 3378	Spironolactone		Hormone		Antagonist	Mineralocorticoid	Competitive antagonist of the cytoplasmic aldosterone receptor; diuretic
3263	E20	S 7395	Spiroperone hydrochloride	R 5147 hydrochloride; Spiroperidol hydrochloride	Dopamine		Antagonist	D2	Selective D2 dopamine receptor antagonist.
3263	E22	S 8139	Sulindac	(Z)-5-Fluoro-2-methyl-1-[[4-(methylsulfinyl)phenyl]methylene]-1H-indene-3-acetic acid	Prostaglandin	Enzyme	Inhibitor	COX	COX inhibitor; Anti-inflammatory
3263	G04	R 2751	Ruthenium red	Ammoniated ruthenium oxychloride	Ion Pump		Inhibitor	Mitochondrial uniporter	Inhibits mitochondrial Ca ²⁺ uniporter; capsaicin antagonist
3263	G06	R 6520	Rolipram	ZK 62711	Cyclic Nucleotides	Enzyme	Inhibitor	PDE IV	Selective cAMP-dependent phosphodiesterase (Type IV) cAMP-dependent inhibitor
3263	G08	R-101	Ranitidine hydrochloride	Zantac	Histamine		Antagonist	H2	H2 Histamine receptor antagonist; anti-ulcer agent
3263	G10	H8664	Steviol	(4alpha)-13-Hydroxykaur-16-en-18-oic acid	Ion Channels		Inhibitor	hOAT1/hOAT3	Inhibits human organic ion transporters OAT1 and OAT3, targets important for studying renal clearance of drugs.
3263	G12	D5446	7,8-Dihydroxyflavone hydrate	7,8-Dihydroxy-2-phenyl-4H-1-benzopyran-4-one	Cytokines, Growth Factors and Hormones		Agonist	TrkB	Selective TrkB receptor agonist
3263	G14	S 1875	(-)-Scopolamine hydrobromide	Hyosine hydrobromide	Cholinergic		Antagonist	Muscarinic	Cholinergic receptor antagonist; isolated from members of the Solanaceae family
3263	G16	S 2876	Spermine tetrahydrochloride	N,N'-bis(3-Aminopropyl)-1,4-butanediamine tetrahydrochloride	Glutamate		Antagonist	NMDA-Polyamine	Binds to the polyamine modulatory site of the NMDA glutamate receptor, attenuating both NMDA and quisqualate mediated responses in vivo.
3263	G18	S 4063	SCH-202676 hydrobromide	N-(2,3-diphenyl-1,2,4-thiadiazol-5-(2H)-ylidene)methanamine hydrobromide	G protein		Modulator	GPCR	Allosteric agonist and antagonist of G protein coupled receptors (GPCRs)
3263	G20	S 7690	SR 2640	2-[[3-(2-Quinolinylmethoxy)phenyl]amino]benzoic acid; QMPB	Leukotriene		Antagonist	CysLT1	Subtype specific CysLT1 leukotriene receptor antagonist.
3263	G22	S 8251	Succinylcholine chloride		Cholinergic		Antagonist	Nicotinic	Nicotinic acetylcholine receptor antagonist.
3263	I04	R 3255	13-cis-retinoic acid	Isotretinoin	Transcription		Regulator	RAR-alpha, beta	Anti-inflammatory and antitumor actions mediated through RAR-beta and RAR-alpha receptors
3263	I06	R 7150	Ro 25-6981 hydrochloride	(R-[R*,S*]-alpha-(4-Hydroxyphenyl)beta-methyl-4-(phenylmethyl)-1-piperidinepropanol) hydrochloride	Glutamate		Antagonist	NMDA-NR2B	NR2B-selective, NMDA glutamate receptor antagonist
3263	I08	R-103	Ritanserin	6-[2-[4-bis(4-Fluorophenyl)methylene]-1-piperidinyl]ethyl]-7-methyl-5H-thiazolo[3,2-a]pyrimidin-5-one	Serotonin		Antagonist	5-HT2/5-HT1C	Potent 5-HT2 serotonin receptor antagonist which passes the blood-brain barrier
3263	I10	R-121	S(+)-Raclopride L-tartrate		Dopamine		Antagonist	D2	Selective D2 dopamine receptor antagonist
3263	I12	S 0752	(±)-Synephrine	4-hydroxy-alpha-(methylaminomethyl)benzyl alcohol	Adrenoceptor		Agonist	alpha	alpha-Adrenoceptor agonist; vasoconstrictor

ICCB-L Plate	ICCB-L Well	Vendor ID	Compound Name	Sec Name	Class	Enzyme	Action	Selectivity	Description
3263	I14	T2952	Tetrabenazine	9,10-Dimethoxy-1,3,4,6,7,11b-hexahydro-3-isobutyl-2H-benzo[a]quinolizin-2-one	Neurotransmission	Enzyme	Inhibitor	VMAT	Reversible type 2 vesicular monoamine transporter (VMAT) inhibitor. It depletes dopamine stores.
3263	I16	PZ0108	CP-335963	4-Chloro-6,7-bis(2-methoxyethoxy)-quinazoline, PF-508367	Kinases	Enzyme	Inhibitor	aurora 2, PDGF	CP-335963 is an aurora 2 kinase inhibitor, PDGF inhibitor, and anti-proliferative
3263	I18	S 4250	D-Serine	R(-)-2-Amino-3-hydroxypropionic acid	Glutamate		Agonist	NMDA-Glycine	Glycine mimic active at the strychnine-insensitive glycine binding site associated with the NMDA glutamate receptor as well as the inhibitory post-synaptic glycine receptor
3263	I20	S 7771	(-)-Sulpiride	(-)-5-Aminosulfonyl-N-[(1-ethyl-2-pyrrolidinyl)methyl]-2-methoxybenzamide	Dopamine		Antagonist	D2	D2 dopamine receptor antagonist; antipsychotic
3263	I22	I 7160	IMS2186	3-[1-(3-Hydroxy-4-methoxyphenyl)-meth-(E)-ylidene]-6-methyl-chroman-4-one	Cell Cycle		Inhibition	G2	IMS2186 is an anti-proliferative and anti-angiogenic. The proposed mechanism action, under investigation, is blocking the cell cycle at G2 and inhibition of the production of PGE2/TNF- α .
3263	K04	R 3277	Rutaecarpine	Rutecarpine	K+ Channel		Blocker		Delayed rectifier K+ channel blocker; inhibits platelet aggregation; vasodilator
3263	K06	R 7385	Phosphoramidon disodium	N-(alpha-Rhamnopyranosyloxyhydroxyphosphinyl)-Leu-Trp disodium	Biochemistry	Enzyme	Inhibitor	Endopeptidase	Inhibitor of mammalian enkephalinase and some metallo-endopeptidases; potent inhibitor of thermolysin and other bacterial metallo-endopeptidases
3263	K08	R-104	Rauwolfscine hydrochloride	alpha-Yohimbine hydrochloride	Adrenoceptor		Antagonist	alpha2	alpha2 Adrenoceptor antagonist
3263	K10	S 4692	Sobuzoxane	4,4'-(1,2-Ethanediy)bis(1-isobutoxycarbonyloxymethyl-2,6-piperazinedione)	Gene Regulation	Enzyme	Inhibitor	Topo II	DNA topoisomerase II inhibitor; induces apoptosis.
3263	K12	S 0758	Sulfaphenazole	4-Amino-N-(1-phenyl-1H-pyrazol-5-yl)-benzenesulfonamide	Multi-Drug Resistance	Enzyme	Inhibitor	Cytochrome P450C	Antibacterial; inhibitor of cytochrome P450C enzymes
3263	K14	S 2201	Semicarbazide hydrochloride	Hydrazine carboxamide hydrochloride	Neurotransmission	Enzyme	Inhibitor	MAO	Monoamine oxidase (MAO) inhibitor
3263	K16	S 3065	SC 19220	2-acetylhydrazide 10(11H)-carboxylic acid	Prostaglandin		Antagonist	EP1	EP1 Prostanoid receptor antagonist
3263	K18	S 5013	Albuterol hemisulfate	Salbutamol hemisulfate	Adrenoceptor		Agonist	beta2	beta Adrenoceptor agonist
3263	K20	S 7809	SKF 96365	1-(beta-[3-(4-Methoxyphenyl)propoxy]-4-methoxyphenethyl)-1H-imidazole hydrochloride	Ca2+ Channel		Inhibitor		Selective inhibitor of receptor-mediated and voltage-gated Ca2+ entry
3263	K22	S 5068	Salmeterol xinafoate	(\pm) 4-Hydroxy-a1-[[[6-(4-phenylbutoxy)hexyl]amino]m-ethyl]-1,3-benzenedimethanol xinafoate; GR 33343X xinafoate	Adrenoceptor		Agonist	beta2	beta2 Adrenoceptor agonist
3263	M04	R 2530	Ropinirole hydrochloride	SKF 101468; 4-[2-(dipropylamino)ethyl]-1,3-dihydro-2H-indol-2-one hydrochloride	Dopamine		Agonist	D3	Agonist at the D2 and D3 dopamine receptor subtypes, binding with higher affinity to D3 than to D2 or D4
3263	M06	B 5435	BIA 2-093	S-(-)-10-Acetoxy-10,11-dihydro-5H-dibenz[b,f]azepine-5-carboxamide	Na+ Channels		Blocker		Blocker of voltage-gated sodium channels; significantly blocks excitatory amino acid (glutamate and aspartate) release.
3263	M08	I5784	Ibandronate sodium	(1-Hydroxy-3-(methylpentylamino)propylidene)bis phosphonic acid sodium	Lipid Signaling	Enzyme	Inhibitor	Farnesyl diphosphate synthase	Farnesyl diphosphate synthase inhibitor; inhibits bone resorption.
3263	M10	R-134	Rilmenidine hemifumarate	N-(Dicyclopropylmethyl)-4,5-dihydro-2-oxazolamine; Oxaminazoline	Imidazoline		Agonist	I1	Selective I1 imidazoline receptor agonist.
3263	M12	N 3289	N2-Ethyl-2'-deoxyguanosine	N2-Et-dG	Gene Regulation		Transcription Blocker		N2-Et-dG, an adduct between DNA and the first metabolite of ethanol (acetaldehyde), strongly blocks transcription by RNA polymerases (RNAPs), including mammalian RNAPII and yeast RNAPII, E. coli RNAP, as well as T7 RNAP
3263	M14	S 2250	(-)-Scopolamine methyl nitrate	Hyoscine methyl nitrate	Cholinergic		Antagonist	Muscarinic	Competitive muscarinic acetylcholine receptor antagonist
3263	M16	S 3066	SKF 89626	4-(3,4-dihydroxyphenyl)-4,5,6,7-tetrahydrothieno[2,3-c]pyridine	Dopamine		Agonist	D1	D1 dopamine receptor agonist
3263	M18	S 5890	Sanguinarine chloride	13-Methyl-1,3]benzodioxolo[5,6-c]-1,3-dioxolo[4,5-i] phenanthridinium chloride	Ion Pump		Inhibitor	Na+/K+ ATPase	Inhibitor of Mg2+ and Na+/K+-ATPase; isolated from the leaves and stems of Macleaya cordata and microcarpa
3263	M20	S 7882	(-)-Scopolamine,n-Butyl-, bromide	Butylscopolamine bromide	Cholinergic		Antagonist	Muscarinic	Cholinergic receptor antagonist
3263	M22	S 8442	SU 5416	1,3-Dihydro-3-[(3,5-dimethyl-1H-pyrrol-2-yl)methylene]-2H-indol-2-one	Phosphorylation		Inhibitor	VEGFR PTK	Potent and selective VEGFR PTK inhibitor; inhibits VEGF-induced angiogenesis

ICCB-L Plate	ICCB-L Well	Vendor ID	Compound Name	Sec Name	Class	Enzyme	Action	Selectivity	Description
3263	O04	R 5010	Resveratrol	5-[(1E)-2-(4-Hydroxyphenyl)ethenyl]-1,3-benzenediol	Prostaglandin	Enzyme	Inhibitor	COX	Prevents apoptosis in K562 cells by inhibiting lipoxygenase and cyclooxygenase activity
3263	O06	R 8875	Rotenone		Cell Stress		Modulator	Mitochondria	Inhibitor of mitochondrial electron transport
3263	O08	PZ0101	CP-226269	5-Fluoro-2-[[4-(2-pyridinyl)-1-piperazinyl]methyl]-1H-indole	Dopamine		Agonist	D4	CP-226269 is a D4 dopamine receptor agonist with EC50 of 32 nM
3263	O10	T 6950	Tizanidine hydrochloride	5-Chloro-N-(4,5-dihydro-1H-imidazol-2-yl)-2,1,3-benzothiadiazol-4-amine hydrochloride	Adrenoceptor		Agonist	alpha2	alpha2-adrenoceptor agonist.
3263	O12	S 1438	Sulindac sulfone	(Z)-5-Fluoro-2-methyl-1-[p-(methylsulfonyl)benzylidene]indene-3-acetic acid	Prostaglandin	Enzyme	Inhibitor		Non-steroidal anti-inflammatory compound (NSAID); metabolite of sulindac
3263	O14	S 2381	DL-Stearoylcarnitine chloride		Phosphorylation	Enzyme	Inhibitor	PKC	Protein kinase C (PKC) inhibitor
3263	O16	A 8231	AGK2	2-Cyano-3-[5-(2,5-dichlorophenyl)-2-furanyl]-N-5-quinolinyl-2-propenamide	Gene Regulation	Enzyme	Inhibitor	SIRT2	SIRT2 inhibitor. AGK2 rescues dopamine neurons from a-synuclein toxicity in Parkinson's disease models.
3263	O18	S 6633	N-Succinyl-L-proline		Neurotransmission	Enzyme	Inhibitor	ACE	Potent and specific angiotensin converting enzyme (ACE) inhibitor
3263	O20	S 7936	SB 205384	4-Amino-7-hydroxy-2-methyl-5,6,7,8-tetrahydrobenzo[b]thieno[2,3-b]pyridine-3-carboxylic acid but-2-ynyl ester	GABA		Modulator	GABA-A	GABA-A receptor modulator selective for the alpha3beta2gamma2 subunit combination
3263	O22	S 8502	(-)-Scopolamine methyl bromide	Hyoscyne methyl bromide	Cholinergic		Antagonist	Muscarinic	Competitive muscarinic acetylcholine receptor antagonist
3263	B03	S 8567	SU 4312	3-(4-Dimethylaminobenzylidene)-2-indolinone	Phosphorylation	Enzyme	Inhibitor	KDR	Vascular endothelial growth factor (VEGF) receptor protein tyrosine kinase 1/2 (KDR) and platelet derived growth factor (PDGF) receptor inhibitor
3263	B05	S-008	1-(2-Methoxyphenyl)piperazine hydrochloride	2-MPP hydrochloride	Serotonin		Agonist	5-HT1 > 5-HT2	Selective 5-HT1 serotonin receptor agonist
3263	B07	S-154	Sepiapterin	S(-)-2-Amino-7,8-dihydro-6-(2-hydroxy-1-oxopropyl)-4(1H)-pteridione	Nitric Oxide	Enzyme	Cofactor	NOS	Cofactor of nitric oxide synthase; intracellularly converted to tetrahydrobiopterin .
3263	B09	T 0410	Tiapride hydrochloride	N-(2-[Diethylamino]ethyl)-5-(methylsulfonyl)-o-anisamide hydrochloride	Dopamine		Antagonist	D2/D3	D2 and D3 dopamine receptor antagonist; antipsychotic
3263	B11	T 1516	Trihexyphenidyl hydrochloride		Cholinergic		Antagonist	Muscarinic	Muscarinic acetylcholine receptor antagonist; centrally acting anticholinergic
3263	B13	T 2528	Terbutaline hemisulfate	2-t-Butylamino-1-(3,5-dihydroxyphenyl)ethanol	Adrenoceptor		Agonist	beta	beta-Adrenoceptor agonist; bronchodilator
3263	B15	T 4182	Tyrphostin AG 1478	N-(3-Chlorophenyl)-6,7-dimethoxy-4-quinazolinamine	Phosphorylation	Enzyme	Inhibitor	EGFR	Selective inhibitor of epidermal growth factor receptor (EGFR) protein
3263	B17	B9311	BIX 01294 trihydrochloride hydrate	2-(Hexahydro-4-methyl-1H-1,4-diazepin-1-yl)-6,7-dimethoxy-N-[1-(phenylmethyl)-4-piperidinyl]-4-quinazolinamine trihydrochloride hydrate	Gene Regulation	Enzyme	Inhibitor	HMT	Selective histone methyl transferase inhibitor.
3263	B19	T 5625	(±)-alpha-Lipoic Acid	(±)-1,2-Dithiolane-3-pentanoic acid	Cell Stress	Enzyme	Coenzyme	Pyruvate dehydrogenase	Coenzyme needed for the activity of enzyme complexes such as those of pyruvate dehydrogenase and glycine decarboxylase
3263	B21	T 6764	Triprolidine hydrochloride	(E)-2-[3-(1-Pyrrolidinyl)-1-p-tolylpropenyl]pyridine hydrochloride	Histamine		Antagonist	H1	Potent H1 histamine receptor antagonist
3263	D03	S 8688	SR 59230A oxalate	3-(2-ethylphenoxy)-1[(1S)-1,2,3,4-tetrahydronaphth-1-ylamino]-(2S)-2-propanol oxalate	Adrenoceptor		Antagonist	beta3	beta3-Adrenoceptor antagonist
3263	D05	S-009	PAPP	LY-165,163; p-Aminophenethyl-m-trifluoromethylphenyl piperazine	Serotonin		Agonist	5-HT1A	Selective 5-HT1A serotonin receptor agonist
3263	D07	A 2729	Amisulpride	DAN-2163, Deniban, 4-Amino-N-[(1-ethyl-2-pyrrolidinyl)methyl]-5-(ethylsulfonyl)-2-methoxybenzamide	Dopamine		Antagonist	D2/D3	selective D2/D3 dopamine receptor antagonist and atypical antipsychotic
3263	D09	T 0625	Taurine	2-Aminoethanesulfonic acid	Glycine		Agonist		Non-selective endogenous agonist at glycine receptors
3263	D11	T 1633	Theophylline	1,3-Dimethylxanthine	Adenosine		Antagonist	A1 > A2	Selective A1 adenosine receptor antagonist.
3263	D13	T 2879	4-Hydroxyphenethylamine hydrochloride	Tyramine hydrochloride	Dopamine		Agonist		Dopamine receptor agonist
3263	D15	T 4264	Tetrahydrozoline hydrochloride		Adrenoceptor		Agonist	alpha	alpha-Adrenoceptor agonist; imidazoline binding site ligand; vasoconstrictor

ICCB-L Plate	ICCB-L Well	Vendor ID	Compound Name	Sec Name	Class	Enzyme	Action	Selectivity	Description
3263	D17	PZ0136	CP-100263 dihydrochloride hydrate	(-)-CP 99994 dihydrochloride hydrate, (2R,3R)-N-[(2-Methoxyphenyl)methyl]-2-phenyl-3-piperidinamine dihydrochloride hydrate	Neurotransmission		Antagonist	NK-1	CP-100263 is an NK-1 neurokinin receptor antagonist
3263	D19	T 6031	DL-Thiorphan	DL-3-Mercapto-2-benzylpropanoylglycine	Neurotransmission	Enzyme	Inhibitor	Enkephalinase	Enkephalinase inhibitor
3263	D21	T 6943	Tyrphostin AG 112	3-Amino-2,4-dicyano-5-(4'-hydroxyphenyl)-penta-2,4-dienonitrile	Phosphorylation	Enzyme	Inhibitor	Tyrosine kinase	Protein tyrosine kinase inhibitor
3263	F03	B 5559	BRL 52537 hydrochloride	(+/-)-1-(3,4-Dichlorophenyl)acetyl-2-(1-pyrrolidinyl)methylpiperidine hydrochloride	Neurotransmission		Agonist	kappa/mu opioid	Kappa/mu opioid receptor agonist.
3263	F05	S-103	Spiroxitrine	R 5188	Serotonin		Agonist	5-HT1A	Partial 5-HT1A serotonin receptor agonist
3263	F07	S-168	(±)-SKF 38393, N-allyl-, hydrobromide	(±)-7,8-Dihydroxy-3-allyl-1-phenyl-2,3,4,5-tetrahydro-1H-3-benzazepine hydrobromide	Dopamine		Agonist	D1	D1 dopamine receptor agonist.
3263	F09	F 4429	FAUC 213	2-[4-(4-Chlorophenyl)piperazin-1-ylmethyl]pyrazolo[1,5-a]pyridine	Dopamine		Antagonist	D4	Highly selective D4 dopamine receptor full antagonist
3263	F11	T 1694	(E)-4-amino-2-butenoic acid	TACA	GABA		Agonist	GABA-C	Potent GABA-C receptor agonist.
3263	F13	T 2896	Triflupromazine hydrochloride		Dopamine		Antagonist	D2	D2 dopamine receptor antagonist; phenothiazine antipsychotic
3263	F15	T 4318	Tyrphostin AG 494	N-Phenyl-3,4-dihydroxybenzylidenecyanacetamide	Phosphorylation	Enzyme	Inhibitor	EGFR	Protein tyrosine kinase inhibitor. Inhibits EGF-receptor kinase activity.
3263	F17	T 4693	Tyrphostin AG 537	Bis-Tyrphostin	Phosphorylation	Enzyme	Inhibitor	EGFR	EGFR protein tyrosine kinase inhibitor
3263	F19	T 6050	Tulobuterol hydrochloride		Adrenoceptor		Agonist	beta	beta-Adrenoceptor agonist related to structurally to terbutaline; bronchodilator
3263	F21	T 7040	Tyrphostin 1	(4-Methoxybenzylidene)malononitrile	Phosphorylation	Enzyme	Inhibitor	EGFR	EGFR tyrosine kinase inhibitor
3263	H03	S 9066	SKF 89976A hydrochloride	1-(4,4-Diphenyl-3-butenyl)-3-piperidinecarboxylic acid hydrochloride	GABA		Inhibitor	GAT-1	GABA transporter type 1 (GAT-1) inhibitor that crosses the blood brain barrier
3263	H05	S-106	SR-95531	2-(3-Carboxypropyl)-3-amino-6-(4-methoxyphenyl)pyridazinium bromide	GABA		Antagonist	GABA-A	Specific GABA-A receptor antagonist; does not affect GABA-transaminase or glutamate-decarboxylase activities.
3263	H07	S-174	SDZ-205,557 hydrochloride	4-Amino-5-chloro-2-methoxybenzoic acid 2-(diethylamino)ethyl ester hydrochloride	Serotonin		Antagonist	5-HT4	Potent and selective 5-HT4 serotonin receptor antagonist
3263	H09	T 0891	Tolbutamide		Hormone		Releaser	Insulin	Oral hypoglycemic agent; stimulates pancreatic islet cells to secrete insulin
3263	H11	T 1698	Tetradecylthioacetic acid	TTA	Transcription		Agonist	PPAR-alpha	Peroxisome proliferator-activated receptor (PPAR)-alpha agonist
3263	H13	T 3146	Trimipramine maleate		Serotonin		Inhibitor	Reuptake	Serotonin reuptake inhibitor that also blocks norepinephrine reuptake; antidepressant
3263	H15	T 4376	N-p-Tosyl-L-phenylalanine chloromethyl ketone	TPCK	Biochemistry	Enzyme	Inhibitor	Chymotrypsin alpha	Blocks LPS- or cytokine-induced activation of nuclear factor kB (NFkB), which, blocks the induction of iNOS and COX-2 transcription; blocks activation of pp70s6k by all mitogens
3263	H17	PZ0138	SC-51089 hydrate	8-Chloro-dibenz[b,f][1,4]oxazepine-10(11H)-carboxylic acid 2-[1-oxo-3-(4-pyridinyl)propyl]hydrazide monohydrochloride hydrate	Prostaglandins		Antagonist	E2 (EP1)	SC-51089 hydrate is a selective prostaglandin E2 (EP1) receptor antagonist
3263	H19	T 6154	Trazodone hydrochloride	2-[3-[4-(3-Chlorophenyl)-1-piperazinyl]propyl]-1,2,4-triazolo[4,3-a]pyridin-3(2H)-one hydrochloride	Serotonin		Inhibitor	Reuptake	Atypical antidepressant
3263	H21	T 7165	Tyrphostin 23	3,4-(Dihydroxybenzylidene)malononitrile	Phosphorylation	Enzyme	Inhibitor	EGFR	Protein tyrosine kinase EGFR inhibitor.
3263	J03	S 9186	SIB 1757	6-Methyl-2-(phenylazo)-3-pyridinol	Glutamate		Antagonist	mGluR5	Highly selective mGlu5 metabotropic glutamate receptor antagonist
3263	J05	S-143	(±)-6-Chloro-PB hydrobromide	(±)-SKF-81297 hydrobromide	Dopamine		Agonist	D1	D1 dopamine receptor agonist
3263	J07	S-180	SB 206553 hydrochloride	N-3-Pyridinyl-3,5-dihydro-5-methyl-benzo[1,2-b:4,5-b']dipyrrole-1(2H)-carboxamide hydrochloride	Serotonin		Antagonist	5-HT2C/5-HT2B	Potent 5-HT2C/5-HT2B serotonin receptor antagonist
3263	J09	T 1132	Tetraethylthiuram disulfide	Disulfiram	Biochemistry	Enzyme	Inhibitor	Alcohol Dehydrogenase	Alcohol dehydrogenase inhibitor

ICCB-L Plate	ICCB-L Well	Vendor ID	Compound Name	Sec Name	Class	Enzyme	Action	Selectivity	Description
3263	J11	T 2057	Trequinsin hydrochloride	HL 725	Cyclic Nucleotides	Enzyme	Inhibitor	PDE III	Phosphodiesterase III (PDE III) inhibitor
3263	J13	PZ0123	Avridine	CP 20961, N,N-Dioctadecyl-N',N'-bis(2-hydroxyethyl)-1,3-diaminopropane, N,N-Dioctadecyl-N',N'-bis(2-hydroxyethyl)propanediamine	Cytokines				Avridine is a potent synthetic adjuvant that can induce arthritis in most rat strains; immunomodulator and interferon-inducing.
3263	J15	T 4425	(6R)-5,6,7,8-Tetrahydro-L-biopterin hydrochloride		Neurotransmission	Enzyme	Cofactor	Tyrosine & tryptophan hydroxylase, NOS	Cofactor for tyrosine hydroxylase, tryptophan hydroxylase and nitric oxide synthase
3263	J17	T 5193	Tyrphostin AG 698	Tyrphostin B52	Phosphorylation	Enzyme	Inhibitor	EGFR	EGFR protein tyrosine kinase inhibitor
3263	J19	B 9685	BAY 61-3606 hydrochloride hydrate	2-[[7-(3,4-Dimethoxyphenyl)imidazo[1,2-c]pyrimidin-5-yl]amino]pyridine-3-carboxamide hydrochloride	Phosphorylation	Enzyme	Inhibitor	Tyrosine kinase	Spleen tyrosine kinase (Syk) inhibitor; anti-inflammatory
3263	J21	P0122	Pifithrin-mu	PFTmu; 2-Phenylethanesulfonamide	Apoptosis		Inhibitor	p53 binding	Anti-apoptotic; inhibits p53 binding to mitochondria as well as Bcl-xL and Bcl-2 proteins. Does not affect transcriptional functions of p53.
3263	L03	S 9311	SIB 1893	(E)-2-Methyl-6-[2-phenylethenyl]pyridine	Glutamate		Antagonist	mGluR5	Selective and noncompetitive antagonist of mGlu5 metabotropic glutamate receptor
3263	L05	B6436	L-Beta-threo-benzyl-aspartate	(2S,3S)-2-Amino-3-benzylsuccinic acid	Neurotransmission		Antagonist	EAAT3	Preferential EAAT3 excitatory amino acid transporter inhibitor.
3263	L07	G 3796	Granisetron hydrochloride	1-Methyl-N-[(3-endo)-9-methyl-9-azabicyclo[3.3.1]non-3-yl]-1H-indazole-3-carboxamide hydrochloride	Serotonin		Antagonist	5-HT3	serotonin 5-HT3 receptor antagonist and antiemetic
3263	L09	T 1443	TCPOBOP	1,4-Bis-[2-(3,5-dichloropyridyloxy)]benzene	Transcription		Agonist	CAR	Constitutive androstane receptor (CAR) agonist; most potent known member of the phenobarbital-like class of CYP-inducing agents
3263	L11	T 2067	Tyrphostin AG 879	alpha-cyano-(3,5-di-t-butyl-4-hydroxy)thiocinnamide	Phosphorylation	Enzyme	Inhibitor	TrkA	Tyrosine kinase nerve growth factor receptor (TrkA) inhibitor; inhibits 140 trk protooncogene and HER-2
3263	L13	T 3757	TTNPB	Arotinoid acid	Transcription		Ligand	RAR-alpha, beta, gamma	Selective and highly potent retinoic acid analog with affinity for retinoic acid receptors (RAR) alpha, beta, and gamma
3263	L15	C 0996	cDPCP	cis-[Pt(NH3)2(py)Cl]+ chloride, cis-Diammine(pyridine)chloroplatinum(I) chloride	Cell Cycle			DNA-N7 of guanosine	cDPCP is a tumor cell permeable, potent platinum-based antineoplastic agent.
3263	L17	PZ0114	PD-166866	1-[2-Amino-6-(3,5-dimethoxyphenyl)pyrido[2,3-d]pyrimidin-7-yl]-3-tert-butyl urea	Tyrosine Kinase	Enzyme	Inhibitor	FGF-1	PD-166866 is a selective inhibitor of the FGF-1 receptor tyrosine kinase (FGFR1) with IC50 = 55 nM, and no effect on c-Src, PDGFR-b, EGFR or insulin receptor tyrosine kinases or MEK, PKC, and CDK4.
3263	L19	T 6376	Triamcinolone	Fluoxyprednisolone	Hormone		Agonist	Glucocorticoid	Synthetic glucocorticoid agonist; inducer of gene expression and apoptosis
3263	L21	T 7254	Na-p-Tosyl-L-lysine chloromethyl ketone hydrochloride	TLCK hydrochloride	Cyclic Nucleotides	Enzyme	Inhibitor	Adenylyl cyclase	Adenylyl cyclase inhibitor; blocks the LPS- or cytokine-induced activation of nuclear factor kB (NFkB)
3263	N03	S-003	1-(1-Naphthyl)piperazine hydrochloride		Serotonin		Antagonist	5-HT2	5-HT2 serotonin receptor antagonist
3263	N05	S 2671	Suramin sodium salt		P2 Receptor		Antagonist	P2X, P2Y	P2X and P2Y receptor antagonist; antiparasitic; anti-tumor agent
3263	N07	T 0254	L-Tryptophan	S(-)-1-alpha-Aminoindole-3-propionic acid	Serotonin		Precursor		Antidepressant; precursor of serotonin
3263	N09	T 1505	Tetraisopropyl pyrophosphoramidate	iso-OMPA	Biochemistry	Enzyme	Inhibitor	Butyrylcholinesterase	Selective inhibitor of butyrylcholinesterase
3263	N11	T 2265	Tetraethylammonium chloride		Cholinergic		Antagonist	Nicotinic	Nicotinic acetylcholine receptor antagonist; K+ channel blocker
3263	N13	PZ0132	SC-51322	8-Chloro-dibenz[b,f][1,4]oxazepine-10(11H)-carboxylic acid 2-[3-[(2-furanylmethyl)thio]-1-oxopropyl]hydrazide	Prostaglandins		Antagonist	E2 (EP1)	SC-51322 is a selective prostglandin E2 (EP1) receptor antagonist
3263	N15	T 4500	Theobromine	3,7-Dimethylxanthine	Adenosine		Antagonist	A1 > A2	Weak adenosine receptor antagonist; weak phosphodiesterase inhibitor; diuretic; smooth muscle relaxant
3263	N17	T 5515	Thio-NADP sodium	Thionicotinamide adenine dinucleotide phosphate sodium (S)-1-[(1,1-Dimethylethyl)amino]-3-[4-(4-morpholinyl)-1,2,5-thiadiazol-3-yl]oxy]-2-propanol maleate	Intracellular Calcium		Blocker	NAADP-induced	Blocks nicotinate adenine dinucleotide phosphate (NAADP)-induced Ca2+ release
3263	N19	T 6394	S(-)-Timolol maleate		Adrenoceptor		Antagonist	beta	beta Adrenoceptor antagonist; antihypertensive; antiarrhythmic; antiglaucoma agent
3263	N21	A 7606	Aprindine hydrochloride	Amidonal	K+ Channel		Blocker	hERG	Class Ib antiarrhythmic and hERG channel blocker.
3263	P03	S-006	Ketanserin tartrate	R 41468	Serotonin		Antagonist	5-HT2	Selective 5-HT2 serotonin receptor blocker

ICCB-L Plate	ICCB-L Well	Vendor ID	Compound Name	Sec Name	Class	Enzyme	Action	Selectivity	Description
3263	P05	S-153	SQ 22536	9-(Tetrahydro-2-furanyl)-9H-purin-6-amine	Cyclic Nucleotides	Enzyme	Inhibitor	Adenylyl cyclase	Adenylyl cyclase inhibitor
3263	P07	T 0318	Tranilast	SB-252218	Leukotriene	Enzyme	Inhibitor	LTC4	Inhibits LTC4 and PGE2 formation but does not inhibit cyclooxygenase or lipoxygenase activity; anti-asthma drug
3263	P09	T 1512	Tetramisole hydrochloride	(±)-2,3,5,6-Tetrahydro-6-phenylimidazo[2,1-b]thiazole hydrochloride	Phosphorylation	Enzyme	Inhibitor	Phosphatase	Inhibits various mammalian alkaline phosphatases (i.e., liver, kidney, placenta, bone and tumor)
3263	P11	T 2408	Tolazamide		Hormone		Releaser	Insulin	Oral hypoglycemic agent; stimulates pancreatic islet cells to secrete insulin
3263	P13	T 4143	Triamterene		Na+ Channel		Blocker		Na+ channel blocker; diuretic
3263	P15	T 4512	(±)-Taxifolin	Dihydroquercetin	Cell Stress		Inhibitor	Antioxidant	Flavonoid, antioxidant
3263	P17	T 5568	Tyrphostin AG 835	Tyrphostin B50	Phosphorylation	Enzyme	Inhibitor	Tyrosine kinase	Protein tyrosine kinase inhibitor
3263	P19	PZ0140	EBPC	2,5-Dihydro-4-hydroxy-5-oxo-1-(phenylmethyl)-1H-pyrrole-3-carboxylic acid ethyl ester, CP-10668	Lipids	Enzyme	Inhibitor	aldose reductase	EBPC is an aldose reductase inhibitor; anti-cancer.
3263	P21	T 7313	1-[2-(Trifluoromethyl)phenyl]imidazole	TRIM	Nitric Oxide	Enzyme	Inhibitor	NOS	Potent nitric oxide synthase (NOS) inhibitor
3263	B04	PZ0141	PD-156707	a-[2-(4-Methoxyphenyl)-2-oxo-1-[[3,4,5-trimethoxyphenyl)methyl]ethylidene]-1,3-benzodioxole-5-acetic acid sodium salt	Neurotransmission and endothelins		Antagonist	Endothelin receptor	PD-156707 is a selective endothelin receptor (ETA) antagonist
3263	B06	T 7947	Tomoxetine	(R)-N-methyl-gamma-(2-methylphenoxy)-benzene-propanamine	Adrenoceptor		Inhibitor	Reuptake	Norepinephrine reuptake blocker
3263	B08	T 9262	Tamoxifen citrate	(Z)-2-[4-(1,2-Diphenyl-1-butenyl)phenoxy]-N,N-dimethylethanamine citrate (1:1)	Phosphorylation	Enzyme	Inhibitor	PKC	Anti-estrogen; relatively selective protein kinase C inhibitor
3263	B10	T-122	Telenzepine dihydrochloride	4,9-Dihydro-3-methyl-4-[[4-methyl-1-piperazinyl)acetyl]-10H-thieno[3,4-b][1,5]benzodiazepin-10-one dihydrochloride	Cholinergic		Antagonist	M1	Selective M1 muscarinic acetylcholine receptor antagonist and anti-ulcer agent
3263	B12	U 4125	Uridine 5'-diphosphate sodium	UDP	P2 Receptor		Agonist	P2Y	P2Y receptor agonist
3263	B14	U-103	U-69593	(+)-(5alpha,7alpha,8beta)-N-Methyl-N-[7-(1-pyrrolidinyl)-1-oxaspiro[4.5]dec-8-yl]-benzeneacetamide	Opioid		Agonist	kappa	Selective kappa opioid receptor agonist
3263	B16	U-116	U-99194A maleate	5,6-Dimethoxy-2-(di-n-propylamino)indan maleate	Dopamine		Antagonist	D3	D3 dopamine receptor antagonist
3263	B18	V 8879	Vincristine sulfate	VCR	Cytoskeleton and ECM		Inhibitor	Tubulin	Inhibitor of microtubule assembly
3263	B20	W-104	WIN 62,577	17-beta-Hydroxy-17-alpha-ethynyl-delta-4-androstano(3,2-b)pyrimido(1,2-a)benzimidazole	Tachykinin		Antagonist	NK1	NK1 tachykinin receptor antagonist
3263	B22	Y 3125	Yohimbine hydrochloride	17-Hydroxy-yohimban-16-carboxylic acid methyl ester hydrochloride	Adrenoceptor		Antagonist	alpha2	alpha2 Adrenoceptor antagonist isolated from Cortnanthe johimbe
3263	D04	T 7508	Tetracaine hydrochloride		Na+ Channel		Modulator		Local anesthetic
3263	D06	N 4411	NU6027	4-Cyclohexylmethoxy-2,6-diamino-5-nitrosopyrimidine	Phosphorylation	Enzyme	Inhibitor	CDK2	Selective cyclin-dependent kinase-2 (CDK2) inhibitor.
3263	D08	T 9652	Terfenadine	alpha-(4-[1,1-Dimethylethyl]phenyl)-4-[hydroxydiphenylmethyl]-1-piperidinebutanol	Histamine		Antagonist	H1	Non-sedating H1 histamine receptor antagonist
3263	D10	T-123	Thioperamide maleate	MR 12842	Histamine		Antagonist	H3	Potent and selective H3 histamine receptor antagonist that crosses the blood brain barrier
3263	D12	U 5882	U-74389G maleate	21-(4-[2,6-di-1-Pyrrolidinyl-4-pyrimidinyl]-1-piperazinyl)pregna-1,4,9[11]-triene-3,20-dione (Z)-2-butenedioate maleate	Cell Stress		Inhibitor		Free radical lipid peroxidation inhibitor
3263	D14	U-104	UK 14,304	5-Bromo-N-(4,5-dihydro-1H-imidazol-2-yl)-6-quinoxalinamine	Adrenoceptor		Agonist	alpha2	alpha2 Adrenoceptor agonist
3263	D16	U-120	U0126	1,4-Diamino-2,3-dicyano-1,4-bis(o-aminophenylmercapto)butadiene	Phosphorylation	Enzyme	Inhibitor	MEK1/MEK2	Specific inhibitor of MEK1 and MEK2 (MAP kinase kinase; MAPKK); also inhibits a constitutively active, mutant form of MEK
3263	D18	A 2731	AMG 9810	2E-N-(2,3-Dihydro-1,4-benzodioxin-6-yl)-3-[4-(1,1-dimethylethyl)phenyl]-2-Propenamide	Ion Channels		Antagonist	TRPV1	Potent, non-vanilloid, antagonist of the TRPV1 receptor.

ICCB-L Plate	ICCB-L Well	Vendor ID	Compound Name	Sec Name	Class	Enzyme	Action	Selectivity	Description
3263	D20	A 4233	Ara-G hydrate	9-β-D-Arabinofuranosyl guanine	Apoptosis		inducer		Ara-G is an inducer of apoptosis; inhibitor of DNA synthesis; antineoplastic; and antimetabolite.
3263	D22	Y-101	YS-035 hydrochloride	N-[2-(3,4-Dimethoxyphenyl)ethyl]-3,4-dimethoxy-N-methylbenzeneethanamine hydrochloride	Ca2+ Channel		Blocker	L-type	L-type Ca2+ channel blocker; verapamil derivative
3263	F04	T 7540	Tyrphostin 47	RG 50864	Phosphorylation	Enzyme	Inhibitor	EGFR	EGFR tyrosine kinase inhibitor
3263	F06	T 8160	3-Tropanyl-3,5-dichlorobenzoate	MDL-72222	Serotonin		Antagonist	5-HT3	Selective 5-HT3 serotonin receptor antagonist
3263	F08	T 9778	Tropicamide	Ro 1-7683	Cholinergic		Antagonist	M4	M4 muscarinic acetylcholine receptor antagonist
3263	F10	T-144	(±)-Thalidomide	(±)-2-(2,6-Dioxo-3-piperidinyl)-1H-isoindole-1,3(2H)-dione	Cytoskeleton and ECM		Inhibitor	TNFalpha	Selective inhibitor of the biosynthesis of tumor necrosis factor α (TNF-α); angiogenesis inhibitor
3263	F12	C 9369	CCT007093	(2E,5E)-2,5-Bis(2-thienylmethylene)cyclopentanone	Apoptosis	Enzyme	Activator	PPM1D	An effective PPM1D inhibitor that selectively reduces viability of human tumour cell lines.
3263	F14	U-105	U-62066	Spiradoline mesylate	Opioid		Agonist	kappa	Highly selective kappa opioid receptor agonist; antitussive
3263	F16	V 1377	Vinblastine sulfate salt	VLB	Cytoskeleton and ECM		Inhibitor	Tubulin	Inhibitor of microtubule assembly
3263	F18	V-100	(±)-Vesamicol hydrochloride	AH-5183 hydrochloride	Cholinergic		Inhibitor	ACh storage	Potent inhibitor of vesicular acetylcholine storage
3263	F20	W-108	WAY-100635 maleate	N-[2-[4-(2-Methoxyphenyl)-1-piperazinyl]ethyl]-N-2-pyridinyl-cyclohexanecarboxamide maleate	Serotonin		Antagonist	5-HT1A	Highly selective 5-HT1A serotonin receptor antagonist
3263	F22	Y-102	YC-1	3-(5'-Hydroxymethyl-2'-furyl)-1-benzyl indazole	Cyclic Nucleotides	Enzyme	Activator	Guanylyl cyclase	NO-independent guanylyl cyclase activator
3263	H04	T 7665	Tyrphostin 51	2-Amino-1,1,3-tricyano-4-(3',4',5'-trihydroxyphenyl)butadiene	Phosphorylation	Enzyme	Inhibitor	EGFR	EGFR tyrosine kinase inhibitor
3263	H06	T 8516	Trifluoperazine dihydrochloride		Dopamine		Antagonist	D1/D2	Calmodulin antagonist; dopamine receptor antagonist; antipsychotic; sedative
3263	H08	T-101	THIP hydrochloride	Gaboxadol hydrochloride	GABA		Agonist	GABA-A	GABA-A receptor agonist, with some GABA-C receptor agonist activity
3263	H10	A 8852	A-68930 hydrochloride	cis-(±)-1-(Aminomethyl)-3,4-dihydro-3-phenyl-1H-2-benzopyran-5,6-diol hydrochloride cis-(±)-1-(Aminomethyl)-3,4-dihydro-3-phenyl-1H-2-benzopyran-5,6-diol hydrochloride	Dopamine		Agonist	D1	Selective D1 dopamine receptor agonist
3263	H12	U 6756	U-73122	1-[6-[[[(17beta)-3-Methoxyestra-1,3,5(10)-trien-17-yl]amino]hexyl]-1H-pyrrole-2,5-dione]	Lipid	Enzyme	Inhibitor	PLC, A2	Phospholipase C and A2 inhibitor that inhibits the hydrolysis of PPI to IP3, leading to a decrease in cytosolic free Ca2+
3263	H14	U-108	S(-)-UH-301 hydrochloride	S(-)-5-Fluoro-8-hydroxy-DPAT hydrochloride	Serotonin		Antagonist	5-HT1A	Potent and selective 5-HT1A serotonin receptor antagonist.
3263	H16	V 4629	(±)-Verapamil hydrochloride		Ca2+ Channel		Modulator	L-type	L-type Ca2+ channel modulator; adrenoceptor antagonist; antiarrhythmic; cardiac depressant; coronary vasodilator
3263	H18	M0253	L-Mimosine from Koa hoale seeds	Leucenol, (S)-a-Amino-β-[1-(3-hydroxy-4-oxopyridine)]propionic acid	Apoptosis		Inhibitor		Potential inhibitor of the cell cycle giving rise to growth arrest in G1-phase. An iron chelator that inhibits DNA replication in mammalian cells. Has been shown to have apoptotic activity in xenotransplanted human pancreatic cancer
3263	H20	A9480	AC-55649	4'-Octyl-4-biphenylcarboxylic acid, 4'-n-octylbiphenyl-4-carboxylic acid; 8BCA	Gene Regulation		Agonist	RARbeta2	Subtype selective retinoic acid receptor beta2 (RARbeta2) agonist.
3263	H22	Z 0878	Zaprinast	1,4-Dihydro-5-(2-propoxyphenyl)-7H-1,2,3-triazolo[4,5-d]pyrimidin-7-one	Cyclic Nucleotides	Enzyme	Inhibitor	PDE V	Selective cGMP-phosphodiesterase type V inhibitor
3263	J04	P0115	PAC-1	(4-Benzylpiperazino)acetic acid (3-allyl-2-hydroxybenzylidene)hydrazide	Apoptosis	Enzyme	Activator	Caspase 3	Caspase 3 activator; apoptosis inducer.
3263	J06	T 8543	D-609 potassium	Carbonodithioic acid, O-(octahydro-4,7-methano-1H-inden-5-yl) ester potassium	Lipid	Enzyme	Inhibitor	PIPLC	Xanthogenate derivative with in vitro anti-tumor and anti-HIV-1 activity; inhibits phospholipase D and phosphatidylcholine phospholipase C (PIPLC)
3263	J08	T-103	Trifluoperidol hydrochloride	R 2498 hydrochloride; Triperidol hydrochloride	Dopamine		Antagonist	D1/D2	Dopamine receptor antagonist; antipsychotic

ICCB-L Plate	ICCB-L Well	Vendor ID	Compound Name	Sec Name	Class	Enzyme	Action	Selectivity	Description
3263	J10	H 9415	5HPP-33	5-Hydroxy-(2,6-diisopropylphenyl)-1H-isoindole-1,3-dione, 1H-isoindole-1,3(2H)-dione, 2-[2,6-bis(1-methylethyl)phenyl]-5-hydroxy-	Cytoskeleton and extracellular matrix		Inhibitor	microtubules	5HPP-33 is a thalidomide derivative which was reported to be active as anticancer agent through stabilization of the microtubules
3263	J12	S 5317	SKF 95282 dimaleate	N-[3-[3-(1-Piperidinylmethyl)phenoxy]propyl]-2-benzothiazolamine dimaleate; Zolantidine	Histamine		Antagonist	H2	H2 Histamine receptor antagonist.
3263	J14	N3288	(+)-Norfenfluramine hydrochloride	JP 92, NSC 43036, S-(+)-a-Methyl-3-(trifluoromethyl)benzeneethanamine hydrochloride	Serotonin		Agonist		the major hepatic metabolite of (+)-fenfluramine and is primarily responsible for the anorexic effect, as well as side effects; (+)-norfenfluramine causes vasoconstriction and a blood pressure increase
3263	J16	PZ0130	CP-64434 hydrate	N'-Desmethylazithromycin hydrate	Gene Regulation and Transcription	Enzyme	Inhibitor	HDAC	CP-064434 is an antibiotic; anti-proliferative HDAC inhibitor.
3263	J18	W 1628	Wortmannin from Penicillium funiculosum		Phosphorylation	Enzyme	Inhibitor	PI3K	Potent and specific phosphatidylinositol 3-kinase (P13-K) inhibitor
3263	J20	X 1251	Xylazine hydrochloride	N-(2,6-Dimethylphenyl)-5,6-dihydro-4H-1,3-thiazin-2-amine hydrochloride	Adrenoceptor		Agonist	alpha2	alpha2 Adrenoceptor agonist; anesthetic
3263	J22	Z 2001	Zonisamide sodium	1,2-Benzisoxazole-3-methanesulfonamide	Anticonvulsant				Antiepileptic; effective in various animal epilepsy models and in humans with both partial and generalized epileptic seizures
3263	L04	T 7697	I-OMe-Tyrphostin AG 538	alpha-Cyano-(3-methoxy-4-hydroxy-5-iodocinnamoyl)-(3',4'-dihydroxyphenyl)ketone	Phosphorylation	Enzyme	Inhibitor	IGF-1 RTK	Insulin growth factor 1 (IGF-1) receptor protein tyrosine kinase inhibitor
3263	L06	T 9025	Thioridazine hydrochloride		Dopamine		Antagonist	D1/D2	Dopamine receptor antagonist; Ca2+ channel antagonist; antipsychotic
3263	L08	T-104	3-Tropanyl-indole-3-carboxylate hydrochloride	ICS-205,930; Navoban; Tropisetron	Serotonin		Antagonist	5-HT3	Selective 5-HT3 serotonin receptor antagonist
3263	L10	T-182	Tyrphostin A9	[[3,5-bis(1,1-Dimethylethyl)-4-hydroxyphenyl]methylene]-propanedinitrile	Phosphorylation	Enzyme	Inhibitor	PDGFR	Selective PDGF tyrosine kinase receptor inhibitor
3263	L12	U 7500	4-Imidazoleacrylic acid	Urocanic acid	Histamine	Enzyme	Inhibitor	Histidine ammonia-lyase/ decarboxylase	Histidine ammonia-lyase and decarboxylase inhibitor
3263	L14	C0993	CGP 57380	N3-(4-fluorophenyl)-1h-pyrazolo[3,4-d]pyrimidine-3,4-diamine	Phosphorylation	Enzyme	Inhibitor	MNK1	Cell-permeable, selective mitogen-activated protein kinase-interacting kinase 1 (MNK1) inhibitor.
3263	L16	V 6383	Vinpocetine	Ebumamenine-14-carboxylic acid ethyl ester; (3alpha, 16alpha)-Ebumamenine-14-carboxylic acid ethyl ester	Cyclic Nucleotides	Enzyme	Inhibitor	PDE I	Ca2+ /calmodulin-dependent phosphodiesterase1 (PDE1) inhibitor.
3263	L18	I 8283	ICI 63,137	2-Amino-6-methyl-4-propyl-[1,2,4]triazolo[1,5-a]pyrimidin-5(4H)-one	Cyclic nucleotides	Enzyme	Inhibitor	PDE4	Phosphodiesterase IV (PDE 4) inhibitor
3263	L20	S4568	SCH 58261	7-(2-phenylethyl)-5-amino-2-(2-furyl)-pyrazolo-[4,3-e]-1,2,4-triazolo[1,5-c]pyrimidine	Purinoceptor		Antagonist	alpha2A	A2A adenosine receptor antagonist.
3263	L22	C 1119	Caroverine hydrochloride	1-[2-(Diethylamino)ethyl]-3-[(4-methoxyphenyl)methyl]-2(1H)-quinoxalinone monohydrochloride	Glutamatergics		Antagonist	NMDA/AMPA	Nonselective NMDA and AMPA glutamate receptor antagonist.
3263	N04	T 7822	Tyrphostin AG 538	(alphaE)-alpha-[(3,4-Dihydroxyphenyl)methylene]-3,4-dihydroxy-beta-oxo-benzenepropanenitrile	Phosphorylation	Enzyme	Inhibitor	IGF-1 RTK	Insulin growth factor 1 (IGF-1) receptor protein tyrosine kinase inhibitor
3263	N06	T 9033	Thapsigargin		Intracellular Calcium	Enzyme	Releaser		Potent, cell-permeable, IP3-independent intracellular calcium releaser
3263	N08	X4753	XCT790	-[4-(2,4-Bis-trifluoromethylbenzyloxy)-3-methoxyphenyl]-2-cyano-N-(5-trifluoromethyl-1,3,4-thiadiazol-2-yl)acrylamide	Gene Regulation		Inverse Agonist	ERRalpha	Potent and selective estrogen-related receptor alpha (ERRalpha) inverse agonist.
3263	N10	T-200	TPMPA	(1,2,5,6-Tetrahydropyridine-4-yl)methylphosphonic acid	GABA		Antagonist	GABA-C	Selective GABA-C receptor antagonist
3263	N12	U-100	Urapidil hydrochloride	6[[3-[4-(o-Methoxyphenyl)-1-piperazinyl]propyl]amino]-1,3-dimethyluracil hydrochloride	Adrenoceptor		Antagonist	alpha1	alpha1 Adrenoceptor antagonist and 5-HT1A serotonin receptor partial agonist; antihypertensive

ICCB-L Plate	ICCB-L Well	Vendor ID	Compound Name	Sec Name	Class	Enzyme	Action	Selectivity	Description
3263	N14	U-111	(-)-trans-(1S,2S)-U-50488 hydrochloride	trans-(1S,2S)-3,4-Dichloro-N-methyl-N-(2-[1-pyrrolidinyl]cyclohexyl)benzeneacetamide hydrochloride	Opioid		Agonist	kappa	Potent kappa opioid receptor agonist; more potent enantiomer of (±)-trans-U-50488
3263	N16	V 8138	Vancomycin hydrochloride from Streptomyces orientalis	Cancocin hydrochloride	Antibiotic			Cell wall synthesis	Amphoteric glycopeptide antibiotic; interferes with cell wall syntehsis by bind to peptidoglycan
3263	N18	A7111	Acepromazine maleate	2-Acetyl-10-(3-dimethylaminopropyl)phenothiazine maleate salt, Acepromazine maleate salt, Acetopromazine maleate salt	neurotransmission		Antagonist		Acepromazine is a phenothiazine antipsychotic comonly used as a veterinary drug (horses, dogs and cats).
3263	N20	X 6000	Xylometazoline hydrochloride	2-(4-tert-Butyl-2,6-dimethylbenzyl)-2-imidazoline hydrochloride	Adrenoceptor		Agonist	alpha	alpha-Adrenoceptor agonist; imidazoline binding site ligand
3263	N22	O 7389	Olprinone hydrochloride	Loprinone hydrochloride; 1,2-Dihydro-5-(imidazo[1,2-a]pyridin-6-yl)-6-methyl-2-oxo-3-pyridinecarbonitrile hydrochloride	Phosphodiesterase	Enzyme	Inhibitor	PDE3	Selective phosphodiesterase 3 (PDE3) inhibitor.
3263	P04	T 7883	Trimethoprim		Antibiotic	Enzyme	Inhibitor	Dihydrofolate reductase	Potent inhibitor of bacterial and protozoal dihydrofolate reductase
3263	P06	I 2285	IPA-3	1,1'-Disulfaneyldinaphthalen-2-ol	Phosphorylation	Enzyme	Inhibitor	Pak1	allosteric inhibitor of Pak1, binds to autoinhibitory domain of Pak1 (p21 activated kinase)
3263	P08	T-113	3-Tropanylindole-3-carboxylate methiodide		Serotonin		Antagonist	5-HT3	Potent, water soluble 5-HT3 serotonin receptor antagonist
3263	P10	PZ0115	CP-31398 dihydrochloride hydrate	N'-[2-[2-(4-Methoxyphenyl)ethenyl]-4-quinazolinyl]-N,N-dimethyl-1,3-propanediamine dihydrochloride hydrate	Apoptosis and Cell Cycle			p53	CP-31398 dihydrochloride hydrate is a p53 stabilizer; apoptosis inducer
3263	P12	U-101	Urapidil, 5-Methyl-	5-Methyl-6[[3-[4-(o-Methoxyphenyl)-1-piperazinyl]propyl]amino]-1,3-dimethyluracil	Adrenoceptor		Antagonist	alpha1A	Selective alpha1A adrenoceptor antagonist; antihypertensive
3263	P14	U-115	U-101958 maleate	1-Benzyl-4-aminomethyl-N-[(3'-isopropoxy)-2'-pyridinyl]piperidine maleate	Dopamine		Antagonist	D4	Selective D4 dopamine receptor antagonist
3263	P16	V 8261	(±)-gamma-Vinyl GABA	Vigabatrin	GABA	Enzyme	Inhibitor	Transaminase	Selective GABA transaminase (GABA-T) inhibitor; anticonvulsant
3263	P18	PZ0121	CP-135807	3-(N-Methylpyrrolidin-2R-ylmethyl)-5-(3-nitropyridin-2-yl)amino-1H-indole, 3-[[[(2R)-1-Methyl-2-pyrrolidinyl]methyl]-N-(3-nitro-2-pyridinyl)-1H-indol-5-amine	Serotonergics		Agonist	5-HT1D	CP-135807 is a selective 5-HT1D agonist
3263	P20	PZ0143	PF-4708671	2-((4-(5-Ethylpyrimidin-4-yl)piperazin-1-yl)methyl)-5-(trifluoromethyl)-1H-benzo[d]imidazole	Kinase	Enzyme	Inhibitor	p70 ribosomal S6 kinase	PF-4708671 is a selective p70 ribosomal S6 kinase (S6K1) inhibitor.
3263	P22	Z-101	Zimelidine dihydrochloride	(Z)-3-(4-Bromophenyl)-N,N-dimethyl-3-(3-pyridinyl)-2-propen-1-amine dihydrochloride	Serotonin		Inhibitor	Reuptake	Serotonin reuptake inhibitor; antidepressant