Table S1

Library I of cell-permeable kinase inhibitors

Plate Location	Inhibitor	Description	PubChem Compound ID#	Replicon Assay Inhibition (50%)	Poliovirus Inhibition in Cell Culture
A2	AG 1024	A specific inhibitor of insulin-like growth factor-1 (IGF-1) and insulin receptor tyrosine kinase activity (IC_{50} = 10 mM)	2044		
A3	AGL 2043	A potent, selective, and reversible inhibitor of type III receptor tyrosine kinases PDGFR (IC_{50} = 800 nM in 3T3 cells; 90 nM against purified PDGFb-receptor), Flt3, and Kit (IC_{50} = 1-3 µM).	9817165		
A4	Akt Inhibitor IV	A compound that inhibits Akt phosphorylation/activation by targeting the ATP binding site of a kinase upstream of Akt, but downstream of PI3K. Blocks Akt-mediated FOXO1a nuclear export (IC_{50} = 625 nM) and cell proliferation (IC_{50} < 1.25 µM) in 786-O cells.	5719375	+	+
A5	Akt Inhibitor V, Triciribine	A selective compound that inhibits the cellular phosphorylation/activation of Akt1/2/3. It does not inhibit known upstream activators of Akt, i.e. PI3K or PDK.	290486		
A6	Akt Inhibitor VIII, Isozyme-Selective, Akti-1/2	A compound that potently and selectively inhibits Akt1/Akt2 activity (IC_{50} = 58 nM, 210 nM, and 2.12 µM for Akt1, Akt2, and Akt3, respectively, in *in vitro* kinase assays).	10196499	+	-
A7	Akt Inhibitor X	A selective inhibitor of the phosphorylation of Akt and its in vitro kinase activity (complete inhibition <5 µM) with minimal effect on PI 3-K, PDK1, or SGK1.	16760284		
A8	PDK1/Akt/Flt Dual Pathway Inhibitor	Shown to directly inhibit both PDK1 and Akt activities in *in vitro* kinase assays in a dose-dependent manner and block cellular phosphorylation of Akt at both	5113385	+ toxic	

		Ser^{473} and Thr^{308} (Average IC_{50} = 1.05, 1.91, and 0.43 µM for AML with wild-type Flt3, single mutant ITD/D835, and double mutant Flt3-ITD-TDK, respectively)			
A9	Aurora Kinase Inhibitor II	A compound that acts as a potent, selective inhibitor of Aurora kinases (IC_{50} = 310 nM and 240 nM for Aurora A and B, respectively, 1.25 µM in MCF7 cells).	6610278		
A10	Bcr-abl Inhibitor	An allosteric inhibitorof of cellular Bcr-abl activity and Bcr-abl-dependent cellular functions. Exhibits potent and selective antiproliferative activity toward Bcr-abl-expressing cells (IC_{50} = 138 nM, 194 nM, 268 nM and 273 nM in Ba/F3.p210, Ba/F3.$p^{185Y253H}$, SUP-B15 and Ba/F3.$p^{210E255V}$, and K562, respectively)	5311510		
A11	Bisindolylmaleimide I	A highly selective and reversible protein kinase C (PKC) inhibitor (K_i = 10 nM) that is structurally similar to staurosporine. Shows high selectivity for PKCa-, b_I-, b_{II}-, g-, d-, and e-isozymes.	2396		
B2	Bisindolylmaleimide IV	A potent, cell permeable, and selective inhibitor of PKC (IC_{50} = 87 nM).	2399		
B3	BPIQ-I	A potent and specific inhibitor of the tyrosine kinase activity of the epidermal growth factor receptor (EGFR; IC_{50} = 25 pM).	2427		
B4	Chelerythrine Chloride	Potent, selective, inhibitor of protein kinase C (IC_{50} = 660 nM). Acts on the catalytic domain of PKC. A competitive inhibitor with respect to the phosphate acceptor and a non-competitive inhibitor with respect to ATP.	72311	+	-
B5	Compound 56	The most potent and specific inhibitor of the tyrosine kinase activity of the EGFR (IC_{50} = 6 pM).	2857		

B6	DNA-PK Inhibitor II	A potent, specific inhibitor of DNA-PK (IC_{50} = 230 nM). It is highly selective towards DNA-PK over PI3K-related kinases (IC_{50} = 13 µM for PI3K and > 100 µM for ATM and ATR) and has no effect on PARP-1.	9860529		
B7	DNA-PK Inhibitor III	An inhibitor of DNA-PK (IC_{50} = 120 nM) and PI 3-Kinase catalytic subunit p110b (IC_{50} = 135 nM).	9859309		
B8	PI-103	A compound that acts as a potent inhibitor of DNA-PK, PI3-K, and mTOR (IC_{50} = 2, 8, 88, 48, 150, 26, 20, and 83 nM for DNA-PK, p110a, p110b, p110d, p110g, PI3-KC2b, mTORC1, and mTORC2, respectively).	9884685	+	+
B9	Diacylglycerol Kinase Inhibitor II	Inhibits diacylglycerol kinase in isolated platelet membranes (IC_{50} = 300 nM) and in intact platelets (IC_{50} = 120 nM) by binding to the catalytic domain.	657356		
B10	DMBI	A potent inhibitor of the tyrosine kinase activities of the PDGF b-receptor (b-PDGFR; IC_{50} = 4 µM in PAC-1 cells) and FGFR1 (IC_{50} = 5 µM for inhibition of tyrosine phosphorylation of p90).	5353593		
B11	EGFR/ErbB-2 Inhibitor	A potent, reversible inhibitor of EGFR and c-erbB2 (IC_{50} = 20 nM & 79 nM, respectively), members of the type I growth factor receptor family.	9843206		
C2	EGFR Inhibitor	A potent, and highly selective inhibitor of EGFR and some EGFR mutants (IC_{50} = 21 nM, 63 nM, and 4 nM for EGFRwt, $EGFR^{L858R}$ and $EGFR^{L861Q}$, respectively) vs. erbB4/Her4 (IC_{50} = 7.64 µM) and a panel of 55 other kinases.	9549299		
C3	EGFR/ErbB-2/ErbB-4 Inhibitor	A potent and irreversible inhibitor of erbB kinase (IC_{50} = 0.3, 1.1, and 0.5 nM for erbB-1, erbB-2, and erbB-4, respectively).	11566580		
C4	Flt-3 Inhibitor	A potent, and highly selective Flt-3 inhibitor (IC_{50} = 42 nM) with little effect against a panel of 22 other kinases	1048845	+	-

		(IC_{50} >3 µM).			
C5	Flt-3 Inhibitor II	A more selective inhibitor of Flt3 over PDGFR either in cell-based receptor autophosphorylation (IC_{50} = 40 nM vs. 300 nM) or in cell-free kinase reactions (IC_{50} = 33 nM vs. 171 nM).	11601743	+	+
C6	cFMS Receptor Tyrosine Kinase Inhibitor	A potent, selective inhibitor of cFMS kinase activity (IC_{50} = 30 nM) with minimal inhibition towards a panel of 26 other kinases (IC_{50} > 5 µM).	11617559		
C7	Gö 6976	A more selctive PKC inhibitor (PKC; IC_{50} = 7.9 nM for rat brain) that exhibits greater selectivity towars Ca^{2+}-dependent PKC a-isozyme (IC_{50} = 2.3 nM) and PKC_{bI} (IC_{50} = 6.2 nM).	3501	+	-
C8	Gö 6983	A potent inhibitor of PKC that inhibits several PKC isozymes (IC_{50} = 7 nM for PKC_a and PKC_b; 6 nM for PKC_g; 10 nM for PKC_d; and 60 nM for PKC_z). Gö 6983 does not effectively inhibit $PKC_µ$ (IC_{50} = 20 µM) and can thus be used to differentiate $PKC_µ$ from other PKC isozymes	3499		
C9	GTP-14564	A potent and specific inhibitor of class III receptor tyrosine kinases (IC_{50} = 0.3 µM for c-fms, c-kit, wt-FLT3 and ITD-FLT3; 1.0 µM for PDGFRb).	3385203		
C10	Herbimycin A, Streptomyces sp.	A potent protein tyrosine kinase inhibitor. Inhibits $p60^{v\text{-}src}$ (IC_{50} = 12 µM) and PDGF-induced phospholipase D activation (IC_{50} = 8 µg/ml). Also inhibit c-Src related bone resorption (IC_{50} = 70 nM	16760502		
C11	Flt-3 Inhibitor III	A potent inhibitor of Flt3 (IC_{50} = 50 nM). It inhibits c-Kit, KDR, c-Abl, Cdk1, c-Src, and Tie-2 only at much higher concentrations (IC_{50} = 0.26, 0.91, 1.2, 2.1, 2.8, and 8.0 µM, respectively).	11772958		
D2	IGF-1R Inhibitor II	An inhibitor of IGF-1R autophosphorylation (IC_{50} = 12 µM in inhibiting ligand-induced	9549305		

		autophosphorylation in MCF-7 cells and < 1 µM in a cell-free kinase assay).			
D3	IRAK-1/4 Inhibitor	A potent and selective inhibitor of interleukin-1 receptor-associated kinases (IC_{50} = 300 nM and 200 nM for IRAK-1 and -4).	11983295		
D4	JAK Inhibitor I	A potent inhibitor of JAK1 (IC_{50} = 15 nM for murine JAK1), JAK2 (IC_{50} = 1 nM), JAK3 (K_i = 5 nM), and Tyk2 (IC_{50} = 1 nM).	5494425		
D5	JAK3 Inhibitor II	A potent, specific inhibitor of JAK3 (IC_{50} = 5.6 µM). Has no effect on either JAK1 or JAK2.	3795		
D6	JAK3 Inhibitor IV	A potent and selective inhibitor of Janus tyrosine kinase-3 (JAK3; pIC_{50} = 7.1). A weak inhibitor of other tyrosine kinases (pIC_{50} = 5.6 for EGF-R; 4.4 for JAK1).	176406		
D7	JAK3 Inhibitor VI	A potent inhibitor of JAK3 (IC_{50} = 27 nM)and displays ~16-fold greater selectivity over JAK2.	16760524	+	+
D8	Lck Inhibitor	A potent, selective inhibitor of Lck (IC_{50} at 5 µM ATP = < 1 nM, 2 nM, 70 nM, 1.57 µM and 1.98 µM for lck_{64-509} Y^{394}, Lckcd pY^{394}, Src, Kdr and Tie-2, respectively; IC_{50} at 1 mM ATP = 16 µM, 66 nM, 126 nM, 420 nM and 5.18 µM for Lck_{64-509} Y^{394}, Blk, Fyn, Lyn and Csk, respectively).	6603792		
D9	LY 294002	A potent and specific phosphatidylinositol 3-kinase (PI3-K) inhibitor (IC_{50} = 1.4 µM).	3973		
D10	LY 303511	A negative control compound for the PI 3-kinase inhibitor LY 294002 (Cat. No. 440202).	3971		
D11	Met Kinase Inhibitor	A potent, reversible inhibitor of Met kinase activity (IC_{50} = 20 nM). Exhibits > 60-fold selectivity over Flk and > 400-fold selectivity over Ron, FGFR-1, c-Src, Cdk2, PDGFRb, EGFR, and Tie-2.	9549297	+	-

E2	PD 158780	A potent inhibitor of the EGFR tyrosine kinase activity (IC_{50} = 8 pM).	4707		
E3	PD 174265	A potent reversible, and selective inhibitor of EGFR tyrosine kinase activity (IC_{50} = 450 pM).	4709		
E4	PDGF Receptor Tyrosine Kinase Inhibitor II	A highly selective inhibitor of platelet-derived growth factor receptor (PDGFR) tyrosine kinase (IC_{50} = 1.1 µM in Swiss 3T3 cells for PDGFR).	5330548		
E5	PDGF Receptor Tyrosine Kinase Inhibitor III	A potent and selective inhibitor of PDGF receptor family of tyrosine kinases (IC_{50} = 50 nM for a-PDGFR; 0.80 nM for b-PDGFR; 50 nM for c-Kit; 230 nM for Flt3).	10907042	+	+
E6	PDGF Receptor Tyrosine Kinase Inhibitor IV	A potent antiproliferative properties in several human tumor cell lines (IC_{50} < 33 nM). Shown to act as reversible inhibitor of PDGFR (IC_{50} = 4.2 nM and 45 nM for -b and -a, respectively) and c-Abl (IC_{50} = 22 nM).	9797370		
E7	PDGF RTK Inhibitor	A potent and reversible inhibitor of PDGFR (IC_{50} = 4 and 7.6 nM in ligand-induced cellular PDGFR phosphorylation and in *in vitro* kinase activity, respectively).	16760609		
E8	PKR Inhibitor	A potent inhibitor of RNA-induced PKR autophosphorylation (IC_{50} = 210 nM) and rescue PKR-dependent translation block (IC_{50} = 100 nM).	6490494	+	-
E9	PKR Inhibitor, Negative Control	A negative control compound for PKR Inhibitor (cat. No.527450)	16760619		
E10	PI 3-Kg Inhibitor	An inhibitor of phosphatidylinositol 3-kinase g (PI 3-Kg) (K_i = 7.8 nM; IC_{50} = 8 nM, 60 nM, 270 nM, 300 nM for p110-g, a, b and d-isoforms, respectively).	5289247		
E11	PI 3-KbInhibitor II	A potent inhibitor of PI 3-Kg (K_i = 180 nM; IC_{50} = 250 nM). Exhibits great selectivity over PI 3-Ka (IC_{50} = 4.5 µM), PI 3-Kb and d (IC_{50} > 20 µM).	5287855		

F2	PP3	A negative control compound for the Src family protein tyrosine kinase inhibitor PP2 (Cat. No. 529573).However, it inhibits the activity of EGFR kinase (IC_{50} = 2.7 µM).	4879		
F3	PP1 Analog II, 1NM-PP1	A potent selective inhibitor of mutant kinases over wild-type. (IC_{50} = 3.2 nM for T339G, c-Fyn-as1 vs. 1.0 µM for c-Fyn; 4.3 nM for I338G, v-src-as1 vs. 28 µM for v-src; 5 nM for F80G, CDK2-as1 vs. 29 µM for CDK2; 8 nM for F89G, CAMK IIa-as1 vs. 24 µM for CAMKII; 120 nM for T315A, c-Abl-as2 vs. 3.4 µM for c-Abl). Shown to activate mutants of Ire1, a transmembrane kinase.	5154691		
F4	PKCbII/EGFR Inhibitor	A potent inhibitor of EGFR and PKC isozymes a, bI, and bII (IC_{50} = 700 nM, 1.9 µM, 3.8 µM, and 410 nM, respectively).	6711154	+	-
F5	PKCb Inhibitor	A potent inhibitor of PKC_b isozymes (IC_{50} = 5 nM and 21 nM for human PKC_{bII} and $_{bI}$) and displays greater selectivity over $PKC_{a, g,}$ and $_e$ (IC_{50} = 331 nM, > 1 µM, and 2.8 µM, respectively).	6419755		
F6	Rapamycin	A selective inhibitor of phosphorylation and activation of p70 S6 kinase (IC_{50} = 50 pM). Shown to inhibit later signaling events such as $p110^{Rb}$ phosphorylation, $p34^{cdk}1$ kinase activation, and cyclin A synthesis.	16760631	+	-
F7	Rho Kinase Inhibitor III, Rockout	A selective inhibitor of Rho kinase activity (IC_{50} = 25 µM).	644354		
F8	Rho Kinase Inhibitor IV	A glycyl analog of Rho-Kinase Inhibitor (Cat. No. 555550) that inhibits ROCK with an improved selectivity (IC_{50} = 11.8 nM, > 10 µM, > 10 µM, 3.26 µM, 2.35 µM, and 2.57 µM for ROCKII, PKA, PKC, PKG, Aurora A, and CaMKII, respectively).	16760635		

F9	Staurosporine, N-benzoyl-	A broad-spectrum, reversible inhibitor of PKC (a, b and g), PDGFRb, VEGFR2, Syk, PKCh, PKCd, Flk-1, Flt3, Cdk1/B, PKA, c-Kit, c-Fgr, c-Src, VEGFR1, and EGFR (IC50 = 22 nM, 50 nM, 86 nM, 95 nM, 160 nM, 330 nM, 390 nM, 528 nM, 570 nM, 570 nM, 600 nM, 790 nM, 800 nM, 912 nM, and 1.0 µM, respectively).	16760627	+	-
F10	Src Kinase Inhibitor I	A potent, selective, dual site inhibitor of Src family tyrosine kinases (IC_{50} = 44 nM and 88 nM for Src and Lck, respectively).	1474853		
F11	SU11652	A potent inhibitor of tyrosine kinase activity of PDGFRb (IC_{50} = 3 nM), VEGFR2 (IC_{50} = 27 nM), FGFR1 (IC_{50} = 170 nM), and Kit family members (IC_{50} ~ 10-500 nM) over EGFR (IC_{50} >20 µM).	5329103	+ toxic	
G2	Syk Inhibitor	A potent Syk inhibitor (IC_{50} = 14 nM).	6419747		
G3	Syk Inhibitor II	A potent, selective inhibitor of Syk (IC_{50} = 41 nM), while affecting PKC_e, PKC_{bII}, ZAP-70, Btk, and Itk only at much higher concentrations (IC_{50} = 5.1, 11, 11.2, 15.5, and 22.6 µM, respectively).	16760670		
G4	Syk Inhibitor III	A selective inhibitor of Syk kinase activity (IC_{50} = 2.5 µM).	672296	+	-
G5	TGF-b RI Kinase Inhibitor	An inhibitor of TGF-b Receptor I kinase (IC_{50} = 51 nM). Shown to inhibit TGF-b-dependent cellular growth (IC_{50} = 89 nM in NIH 3T3 mouse fibroblasts) and transcription activation (IC_{50} = 47 nM in mink lung cells).	447966	+	-
G6	TGF-b RI Inhibitor III	A potent, reversible, and selective inhibitor of activin receptor-like kinase 4 (IC_{50} = 129 nM), 5 (IC_{50} = 47 nM), and 7.	16079009		
G7	AG 9	A negative control compound for inhibition of EGFR (IC_{50} >1250 µM for EGFR kinase). Has been shown to inhibit IL-2 stimulated Tyk-2	2063		

		phosphorylation in ConA-activated T cells.			
G8	AG 490	A potent inhibitor of EGFR kinase autophosphorylation (IC_{50} = 100 nM).	5328779		
G9	AG 112	Inhibits EGFR tyrosine kinase (IC_{50} = 125 nM).	5328804		
G10	AG 1295	Selectively inhibits platelet-derived growth factor (PDGF) receptor kinase (IC_{50} = 500 nM) and PDGF-dependent DNA synthesis (IC_{50} = 2.5 µM) in Swiss/3T3 cells.	2048		
G11	AG 1296	Inhibits PDGF receptor kinase and blocks signaling of human PDGF a-receptors (IC_{50} = 1.0 µM) and b-receptors (IC_{50} = 800 nM) as well as of the related stem cell factor receptor c-*kit* (80% inhibition at 5 µM).	2049		
H2	AG 1478	A very potent and selective inhibitor of EGFR kinase (IC_{50} = 3 nM) versus HER2-neu (IC_{50} >100 µM) and platelet-derived growth factor receptor kinase (IC_{50} >100 µM).	2051		
H3	VEGF Receptor 2 Kinase Inhibitor I	A highly selective, indolin-2-one class of receptor tyrosine kinase (RTK) inhibitor (IC_{50} = 70 nM for murine vascular endothelial growth factor receptor 2 (VEGF-R2; KDR/Flk-1).	6419834		
H4	VEGF Receptor Tyrosine Kinase Inhibitor II	A potent inhibitor of the kinase activities of KDR, Flt-1 and c-Kit (IC_{50} = 20 nM, 180 nM and 240 nM, respectively), and minimally inhibit c-Src and EGF-R activities (IC_{50} = 7 µM and 7.3 µM).	9797919	+	-
H5	VEGF Receptor Tyrosine Kinase Inhibitor III, KRN633	An inhibitor of VEGFR kinase activity (IC_{50} = 170 nM, 160 nM, and 125 nM for VEGFR-1, VEGFR-2, VEGFR-3, respectively). Inhibits PDGFR-a and c-Kit only at higher concentrations (IC_{50} = 0.97 µM and 4.33 µM, respectively).	9549295	+	-
H6	VEGF Receptor 2 Kinase Inhibitor II	A indolin-2-one class of receptor tyrosine kinase (RTK) inhibitor [IC_{50} = 70 nM for VEGF-R2 (KDR/Flk-1), 920	5329155		

		nM for PDGF-Rb, 4.92 µM for $p60^{c\text{-}src}$, and 13.3 µM for FGF-R1].			
H7	VEGF Receptor 2 Kinase Inhibitor III	An inhibitor of VEGF-R (KDR/Flk-1) and PDGF-R tyrosine kinases (IC_{50} = 1.04 µM and 20 µM in NIH 3T3 cells overexpressing Flk-1; K_m = 530 nM for ATP).	5329098		
H8	VEGF Receptor 2 Kinase Inhibitor IV	A potent inhibitor of VEGFR-2 (KDR/Flk-1; IC_{50} = 19 nM). Displays ~2-fold greater selectivity for VEGFR-2 over PDGFRb (IC_{50} = 34 nM) and 10-fold greater selectivity over VEGFR-1 (Flt-1) and VEGFR-3 (Flt-4; IC_{50} = 190 nM) tyrosine kinase activity.	5329468		
H9	DNA-PK Inhibitor V	A potent, selective, and ATP-competitive inhibitor of DNA-PK (IC50 = 0.27 µM). Inhibits the PI-3 kinase catalytic subunit p110-isozymes at higher concentrations (IC50 = 32 µM, 3.7 µM, 22 µM and ~ 100 µM for α, β, δ and γ, respectively). Only weakly inhibits a panel of several other kinases, including, ATM, ATR, CK2, GRK2, mTOR, PI-3KC2α, PI-3KC2β, PI-3KC2γ and PI-4Kβ, even at concentrations as high as 50 µM.	16760391		
H10	Aurora Kinase Inhibitor III	A potent, but non-selective inhibitor of Aurora A (IC_{50} = 42 nM). At higher concentrations, also inhibits the activities of other kinases, such as Lck, Bmx, IGF-1R, and Syk (IC_{50} = 131, 386, 591, and 887 nM, respectively).	9549303	+	-
H11	Staurosporine, Streptomyces sp.	A potent and broad spectrum inhibitor of protein kinases. Inhibits protein kinase A (IC_{50} = 7 nM), CaM kinase (IC_{50} = 20 nM), myosin light chain kinase (IC_{50} = 1.3 nM), protein kinase C (IC_{50} = 700 pM), and protein kinase G (IC_{50} = 8.5 nM).	451705	+	-

Table S2

Library II of cell-permeable kinase inhibitors

Plate Location	Inhibitor	Description	PubChem Compound ID#	Replicon Assay Inhibition (50%)	Poliovirus Inhibition in Cell Culture
A2	KN-62	K_i= 900 nM for Ca++/CaM Kinase II[1]	16760529		
A3	ATM Kinase Inhibitor	IC_{50}=13nM; K_i=2.2nM[1]	5278396		
A4	ATM/ATR Kinase Inhibitor	IC_{50}=~200nM[1]	6605258	+	-
A5	Alsterpaullone	IC_{50}=35 nM for Cdk1/ B[2] IC_{50}=4 nM for GSK-3b[1]	5005498		
A6	Alsterpaullone, 2-Cyanoethyl	IC_{50}=230pM for Cdk1/B[1] IC_{50}=800pM for GSK-3b[1] IC_{50}=30 nM for cdk5/p25[1]	16760286		
A7	Aloisine A, RP107	IC_{50}=150nM for Cdk1/B[2] IC_{50}=120nM for Cdk2/A[2] IC_{50}=400nM for Cdk2/E[2] IC_{50}= 160nM for Cdk5/p35[2] IC_{50}= 500nM for GSK3a[2]	5326843		
A8	Aloisine, RP106	IC_{50}= 700nM for CDK1/B[1]IC_{50}= 1.5 mM CDK5/p25[1] IC_{50}= 920 nM for GSK-3[1]	3641059		
A9	Aminopurvalanol A	IC_{50}=33nM for Cdk1/B and Cdk2/A[1,2] IC_{50}=28nM for Cdk2/E[1,2] IC_{50}=20nM for Cdk5/p35[1,2]	6604931		
A10	AMPK Inhibitor,Compound C	K_i= 109nM in the presence of 5mM ATP and absence of AMP[1]	11524144		
A11	Aurora Kinase Inhibitor III	IC_{50}= 42nM for Aurora A[1]IC_{50}= 131 nM for Lck[1] IC_{50}= 386 nM for Bmx[1]IC_{50}= 591nM for IGF-1R[1]IC_{50}= 887 nM for Syk[1]	9549303		
B2	Aurora Kinase/Cdk Inhibitor	IC_{50}= 11nM for Aurora A[2]IC_{50}= 15 nM for Aurora B[2] IC_{50}= 9nM for Cdk1/B[2] IC_{50}= 4nM for Cdk2/A[2] IC_{50}= 3nM for Cdk2/E[2]	16760303		

B3	Indirubin-3'-monoxime	IC_{50}= 180nM for Cdk1[1,2] IC_{50}= 100 nM for Cdk5[1,2] IC_{50}= 22 nM for GSKb[1,2]	5326739		
B4	BAY 11-7082	IC_{50} < 10 mM	5353431		
B5	Bohemine	IC_{50}= 1mM for Cdk1[2]	2422		
B6	Cdk1 Inhibitor	IC_{50}= 5.8mM for Cdk1[2] IC_{50}= 25mM for Cdk5[2]	5472558		
B7	Cdk1 Inhibitor, CGP74514A	IC_{50}=25 nM for Cdk1[2]	2794188		
B8	Cdk1/2 Inhibitor III	IC_{50}=600 pM for Cdk1/B[1] IC_{50}= 500 pM for Cdk2/A[1]	5330812	+	-
B9	Cdk1/5 Inhibitor	IC_{50}= 600 nM for Cdk1/B[1] IC_{50}= 400 nM for Cdk5/p25[1] IC_{50}= 1 mM for GSK-3b[1]	438981		
B10	Casein Kinase I Inhibitor, D4476	IC_{50}= 500 nM for ALK5[1] IC_{50}= 12 mM for p38a MAPK[1] IC_{50}= 0.3 mM for CK1d[1] IC_{50}= 200 nM for CK1 (S. pombe)[1]	6419753		
B11	Casein Kinase II Inhibitor III, TBCA	IC_{50}= 110 nM for CK2[1]	16760346		
C2	Cdk4 Inhibitor	IC_{50}= 76 nM for Cdk4/D1[1] IC_{50}= 520 nM for Cdk2/E[1] IC_{50}= 2.1 mM for Cdk1/B[1]	5330797		
C3	Cdk4 Inhibitor II, NSC 625987	IC_{50}=200 nM for Cdk4/D1[1]	3004085		
C4	Cdk4 Inhibitor III	IC_{50}= 6 mM for Cdk4/D1[1] IC_{50}>200mM for Cdk2/A[1]	481747	+ toxic	
C5	Cdc2-Like Kinase Inhibitor, TG003	IC_{50}= 15 nM for mClk4[1] IC_{50}= 20 nm for mClk1[1] IC_{50}= 200 nM for mClk2[1]	1893668		
C6	Chk2 Inhibitor II	IC_{50}= 15 nM for Chk2[1] IC_{50} = 12 mM for Cdk1/B[1] IC_{50}= 17 mM for CK1[1]	9969021		
C7	Compound 52	IC_{50}= 7 mM for Cdc28p[1] IC_{50}= 2 mM for Pho85p[1]	2856		

C8	Cdk2 Inhibitor III	IC_{50}= 500 nM for Cdk2/A and Cdk2/E[1] IC_{50}= 4.2 mM for Cdk1/B[1]IC_{50}= 215 mM for Cdk4/D1[1]	6918386		
C9	Cdk2 Inhibitor IV, NU6140	IC_{50}= 6.6 mM for Cdk1/B[1]IC_{50}= 0.41 mM for Cdk2/A[1]IC_{50}= 5.5 mM for Cdk4/D[1] IC_{50}=15 mM for Cdk5/p25[1] IC_{50}= 3.9 mM for Cdk7/B[1]	10202471	-	-
C10	Cdk/Crk Inhibitor	IC_{50}= 48 nM for Cdk1/B[1] IC_{50}= 15 nM for Cdk2/E[1] IC_{50}= 9 nM for Cdk3/E[1] IC_{50}= 10nM for Cdk5/p35[1]IC_{50}= 71 nM for Cdk7/H/MAT1[1]IC_{50}= 839 nM for Cdk4/D1[1] IC_{50}= 282 nM for Cdk6/D3[1] IC_{50}= 754 nM for GSK-3b[1]	9549301		
C11	ERK Inhibitor III	N/A	5339183		
D2	ROCK Inhibitor, Y-27632	K_i= 140 nM for p160Rock (ROCK-I)[1]	9797929		
D3	ERK Inhibitor II, FR180204	IC_{50}= 510 nM for ERK1[1] IC_{50}= 330 nM for ERK2[1]	11493598		
D4	ERK Inhibitor II, Negative control	Inactive for ERK1 and ERK2[1]	16760417		
D5	Fascaplysin, Synthetic	IC_{50}= 350nM for Cdk4/D1[1] IC_{50}= 3.4 mM for Cdk6/D1[1]	73292	+ toxic	
D6	GSK-3b Inhibitor I	IC_{50}= 2 mM[2,3]IC_{50}= 673 nM for Flt-3[2,3] IC_{50} =1.4-5.5 mM for various PKC isoforms[2,3]	4124851		
D7	GSK-3b Inhibitor II	IC_{50}= 390 nM for GSK-3[1]	6539732		
D8	GSK-3b Inhibitor VIII	IC_{50}= 104 nM for GSK-3[1]	448014		
D9	GSK-3 Inhibitor IX	IC_{50}= 5 nM for GSK-3a/b[1]IC_{50}= 83 nM for Cdk5/p25[1] IC_{50}= 300 nM for Cdk2/A[1]IC_{50}= 320 nM for Cdk1/B[1]	5287844		
D10	GSK-3 Inhibitor X	IC_{50}= 10 nM for GSK-3a/b[1] IC_{50}= 2.4 mM for Cdk5/p25[1] IC_{50}= 4.3 mM for	6538818		

		Cdk2/A[1]			
D11	GSK-3b Inhibitor XI	K_i= 25 nM for GSK-3b[1]	10020713		
E2	SU6656	IC_{50} = 280 nM for Src[1] IC_{50} = 170 nM for Fyn[1] IC_{50} = 20 nM for Yes[1] IC_{50} = 130 nM for Lyn[1]	5312137		
E3	GSK-3 Inhibitor XIII	K_i= 24 nM for GSK-3[1]	6419766		
E4	Isogranulatimide	IC_{50}= 100 nm for Chk1[1] IC_{50}= 500 nM for GSK-3b[1] IC_{50}= 3 mM for Chk2[1]	6419741		
E5	IC261	IC_{50}= 0.7-1.3 mM for CK1d[2] IC_{50}= 0.6-1.4 mM for CK1e[2] IC_{50}= 11-21mM for $CK1a_1$[2]	3674		
E6	IKK-2 Inhibitor IV	IC_{50}= 18 nM for IKK-2[1]	9903786		
E7	Indirubin Derivative E804	IC_{50}= 430 nM for Src[1] IC_{50}= 210 nM for Cdk1/E[1] IC_{50}= 540 nM for Cdk2/A[1] IC_{50}= 1.65 mM for Cdk1/B[1]	6419764	+	+
E8	JNK Inhibitor II	IC_{50}= 110nM for JNK1 and JNK2[2,3] IC_{50}= 150-190 nM for JNK3[2,3]	8515		
E9	JNK Inhibitor, Negative Control	IC_{50}= 18 mM for JNK2[1] IC_{50}= 24 mM for JNK3[1]	11665831		
E10	JNK Inhibitor V	IC_{50}= 150 nM for hJNK1[1] IC_{50}= 220 nM for hJNK2[1] IC_{50}= 70 nM for hJNK3[1]	11422035	+	-
E11	JNK Inhibitor IX	pIC_{50}= 6.5 for JNK2[1] pIC_{50}= 6.7 for JNK3[1]	16760525		
F2	MK2a Inhibitor	K_i^{app}= 330 nM for p38a-dependent phosphorylation[1]	11382492		
F3	JNK Inhibitor VIII	K_i= 2nM for JNK1[1] K_i= 4 nM for JNK2[1] K_i= 52 nM for JNK3[1]	11624601		
F4	K-252a, Nocardiopsis sp.	K_i= 18 nM for PKA[2] K_i= 25 nM for PKC[2] K_i= 20 nM for PKG[2]	490561	+	-
F5	Kenpaullone	IC_{50}=230 nM for GSK-3b[2] IC_{50}=470 nM	3820		

		for Lck[2] IC_{50}=400 nM for Cdk1/B[2] IC_{50}= 680 nM for Cdk2/A[2]IC_{50}= 850 nM for Cdk5/p25[2]			
F6	KN-93	K_i= 370 nM for CaMKII[2]	5312122	+	-
F7	MEK Inhibitor I	IC_{50}= 12 nM for MEK[1] IC_{50} >1 mM for MKK3 and MKK4[1]	9951490		
F8	MEK Inhibitor II	IC_{50}= 380 nM for MEK1[1]	389898		
F9	MEK1/2 Inhibitor	IC_{50}= 180 nM for MEK1[2]IC_{50}= 220 nM for MEK2[2]	9549284		
F10	MNK1 Inhibitor	IC_{50}= 2.2 mM for MNK1[1]	11644425		
F11	NF-kB Activation Inhibitor	IC_{50}= 11 nM for the inhibition of NFKB activation in Jurkat cells transfected with pNFKB-Luc[1]	509554		
G2	p38 MAP Kinase Inhibitor III	IC_{50}= 380 nM for p38a[1]	6419739	+	-
G3	p38 MAP Kinase Inhibitor	IC_{50}= 35 nM for p38MAPK[1]	4665		
G4	PD 98059	N/A	4713		
G5	PD 169316	IC_{50}= 89 nM for p38 MAPK[2]	4712		
G6	SB220025	IC_{50} = 60 nM for p38 MAP Kinase[3]	5164		
G7	Purvalanol A	IC_{50}= 4 nM for Cdc2/B[1] IC_{50}= 70 nm for CDK2/A[1]IC_{50}= 35 nM for CDK2/E[1]IC_{50}= 75 nM for CDK5/p35[1]	4987	+	-
G8	GSK3b Inhibitor XII, TWS119	IC_{50}= 30 nM for GSK-3b[1]	9549289		
G9	H-89, Dihydrochloride	K_i = 48 nM for PKA[2]IC_{50} = 270 nM for ROCK-II[3]	5702541		
G10	SB 202474, Negative control for p38 MAPK inhibition studies	Inactive compound on p38 MAPK[1]	5162		

G11	SB 202190	K_i = 16 nM for p38MAPK[2] IC_{50}= 350nM for p38b[3]	5353940		
H2	SB 203580	IC_{50}= 34 nM for p38MAPK[4] IC_{50}= 600 nM in cells[5]	176155		
H3	HA 1077, DihydrochlorideFasudil	Ki= 1.6 mM for PKA[1] Ki= 1.6 mM for PKG[1] Ki= 36mM for MLCK[1] IC50 = 10.7 mM for ROCK[2]	16219471		
H4	SB 218078	IC_{50}=15 nM for Chk1[1] K_i= 15 nM for Chk1[2] K_i= 23 nM for CDK1[2] K_i= 5.6 nM for CDK2[2] K_i= 16 nM for CDK4[2]	3387354	+	-
H5	SC-68376	IC_{50}= 2-5 mM for p38 MAPK[1]	5174		
H6	SKF-86002	IC_{50} = 1.30 ± 1 µM inhibiting IL-1 production by LPS-stimulated human monocytes[3]	5228		
H7	Sphingosine Kinase Inhibitor	IC_{50}= 500 nM for hSK[1]	16760659	-	-
H8	Staurosporine, Streptomyces sp.	IC_{50}= 20 nM for CaM kinase[1,2,3] IC_{50}= 0.7 nM for PKC[1,2,3] IC_{50}= 1.3 nM for MLCK[1,2,3] IC_{50}= 8.5 nM for PKG[1,2,3] IC_{50}=7 nM for PKA[1,2,3]	451705	+	-
H9	STO-609	IC_{50}= ~10mg/ml for CaM-KII[1] IC_{50}=120 ng/ml for CaM-KKa[1] IC_{50}=40 ng/ml for CaM-KKb[1]	16760660		
H10	SU9516	IC_{50}= 22 nM for Cdk2/A[1] IC_{50}= 40 nM for Cdk1/B[1] IC_{50}= 22 nM for Cdk4/D1[1]	5289419		
H11	Tpl2 Kinase Inhibitor	IC_{50}= 50 nM for Tpl2 Kinase	9549300	+	-