

**SI Table S1.** Broad protein kinase selectivity for PF-2771.

Kinase, PF-2771	% Inhibition at 10 $\mu$ M	Service	Kinase, PF-2771	% Inhibition at 1 $\mu$ M	Service
rat RPS6KA1 (RSK1)	39	Dundee	AURKA (AURA)	24	Invitrogen
IKKKB (IKKb)	26	Dundee	CDK2/CyclinA	21	Invitrogen
mouse LCK	25	Dundee	rabbit MAP2K1 (MEK1)	19	Dundee
AKT1 (AKT)	21	Dundee	IKKKB (IKKb)	16	Dundee
CAMK1 (CaMK1a)	19	Dundee	PKN2 (PRK2)	14	Dundee
RPS6KA5 (MSK1)	18	Dundee	MAPKAPK5	14	Dundee
PRKD1 (PKD1)	13	Dundee	PIM3	12	Dundee
MKNK2 (MNK2)	12	Dundee	PRKD1 (PKD1)	12	Dundee
MARK3	10	Dundee	NTRK1 (TRKA)	12	Invitrogen
SRPK1	9	Dundee	MAPK12 (p38g)	11	Dundee
MAPKAPK5	9	Dundee	MAPK8 (JNK1a)	11	Dundee
MAPK13 (p38d)	8	Dundee	rat PRKAA2 (AMPKa2)	11	Dundee
AURKB (AURB)	5	Dundee	NEK2	11	Invitrogen
CSK	5	Dundee	CHEK2 (CHK2)	11	Invitrogen
EEF2K (EEF-2 kinase)	4	Dundee	MAPK9 (JNK2)	9	Dundee
PRKCA (PKCa)	4	Dundee	rat RPS6KA1 (RSK1)	8	Dundee
rat PRKAA2 (AMPKa2)	4	Dundee	DYRK2	7	Dundee
rat CSNK1D (CKId)	3	Dundee	AKT1 (AKT)	7	Dundee
LYN	3	BioPrint	PIM2	7	Invitrogen
CSNK2A1 (CKIIa)	3	Dundee	MAPK15 (ERK7)	6	Dundee
CAMKK2 (CAMKKB)	1	Dundee	mouse LCK	5	Dundee
PIM3	1	Dundee	PDPK1 (PDK1) (directed)	5	Invitrogen
rat DYRK1A (MNB)	1	Dundee	RPS6KB1 (p70S6K)	5	Dundee
PBK	0	Dundee	CSNK2A1 (CKIIa)	4	Dundee
PIM1	-1	Dundee	CAMKK2 (CAMKKB)	4	Dundee
DYRK2	-2	Dundee	SRC	4	Invitrogen
MAPK12 (p38g)	-2	Dundee	MYLK2 (MLCK_sk)	3	Invitrogen
NEK6	-3	Dundee	MKNK2 (MNK2)	2	Dundee
RPS6KB1 (p70S6K)	-3	Dundee	SRPK1	2	Dundee
AKT2	-3	Dundee	MKNK1 (MNK1)	2	Dundee
RPS6KA3 (RSK2)	-3	Dundee	CHEK1 (CHK1)	2	Invitrogen
rabbit MAP2K1 (MEK1)	-4	Dundee	MAPK1 (ERK2)	1	Invitrogen
MAPK9 (JNK2)	-4	Dundee	ROCK1 (ROCK1)	1	Invitrogen
MKNK1 (MNK1)	-5	Dundee	NEK6	0	Dundee
MYLK (MLCK)	-7	Dundee	PIM1	0	Dundee
MAPK8 (JNK1a)	-7	Dundee	MAPK13 (p38d)	-1	Dundee
MAPK14 (p38)	-7	BioPrint	MAP4K4 (ZC1)	-1	Invitrogen
MAPK15 (ERK7)	-7	Dundee	JAK3	-2	Invitrogen
PLK1 preactivated	-10	Dundee	CAMK1 (CaMK1a)	-2	Dundee
FLT1	-11	BioPrint	GSK3b	-2	Invitrogen
ABL1 (ABL)	-12	BioPrint	PLK1 preactivated	-2	Dundee
rat ROCK2 (ROCKII)	-15	Dundee	CAMK2A (CaMKIIa)	-3	Invitrogen
PKN2 (PRK2)	-154	Dundee	MST4	-3	Invitrogen
			FGFR1	-4	Invitrogen
			MYLK (MLCK)	-4	Dundee
			KDR (KDRVEGF)	-5	Invitrogen
			AKT1 (AKT)	-5	Invitrogen
			CSK	-5	Dundee
			CSNK1A1 (CKIa)	-5	Invitrogen
			rat CSNK1D (CKId)	-5	Dundee
			PAK4	-6	Invitrogen
			TAOK2 (TAO2)	-6	Invitrogen
			INSR (IRK)	-6	Invitrogen
			rat ROCK2 (ROCKII)	-6	Dundee
			MET (HGFR)	-8	Invitrogen
			RPS6KA3 (RSK2)	-8	Dundee
			RPS6KA5 (MSK1)	-8	Dundee
			STK3 (MST2)	-9	Invitrogen
			MARK1	-10	Invitrogen
			CSNK2A2 (CKIIa prime)	-11	Invitrogen
			PRKCA (PKCa)	-11	Dundee
			EGFR	-11	Invitrogen
			EphA2	-12	Invitrogen
			AKT2	-13	Dundee
			MAPKAPK2 (MK2)	-13	Invitrogen
			MAPK14 (p38) direct	-13	Invitrogen
			LCK	-14	Invitrogen
			SGK1 (SGK)	-15	Invitrogen
			PRKACA (PKACa)	-15	Invitrogen
			AURKB (AURB)	-15	Dundee
			rat DYRK1A (MNB)	-17	Dundee
			EEF2K (EEF-2 kinase)	-21	Dundee
			PBK	-26	Dundee
			MARK3	-158	Dundee