

Table S2. Kinome-wide selectivity profiling performed by Nanosyn (www.nanosyn.com).

Kinase	Compound				Kinase	Compound				Kinase	Compound				Kinase	Compound			
	K02288 (μM)		LDN-193189 (μM)			K02288 (μM)		LDN-193189 (μM)			K02288 (μM)		LDN-193189 (μM)			K02288 (μM)		LDN-193189 (μM)	
	0.1	1	0.1	1		0.1	1	0.1	1		0.1	1	0.1	1		0.1	1	0.1	1
ABL1	79	89	62	84	CSK	3.2	13	3.3	6	NEK2	-2	-2	2.8	1.2	PRKG1	0.3	3.3	1	1.2
AKT1	-2	-1	0.8	1.6	DAPK1	-1	-1	1.5	0.4	IRR	-1	-1	1.9	2.2	PRKG2	1	5	1.7	9.3
AKT2	-2	-1	1	1.8	DCAMKL2	-2	2.3	0.8	3.4	ITK	-0	-0	0.9	3.6	PRKX	-1	-1	0.2	1.2
AKT3	-2	1.2	0.2	1.5	DDR2	-0	11	5.5	27	JAK1	-0	0.4	2.7	4.2	PTK5	2.2	22	4.1	14
ALK	-1	2.5	3.7	12	DYRK1A	1.9	4.1	10	53	JAK2	-0	-0	2	0.5	PYK2	-1	0	4.6	9
AMPKα1	-1	-0	5.2	23	DYRK1B	2.6	6	7.1	41	JAK3	5.6	2.3	-0	0.1	RET	2.1	3.9	4	16
ARG	66	85	33	73	DYRK2	-1	-3	2.3	0.2	JNK2	0.9	-0	3.9	1.3	ROCK1	0.5	3.1	0	0.7
ARK5	1.1	4.1	16	56	EGFR	2.4	12	1.5	4.8	KDR	0.5	3.9	19	69	ROCK2	-1	0.8	1.4	1.5
AURKA	-2	-1	4.2	23	EPHA2	-2	3	-2	-3	KIT	4	9.2	7	41	RON	3	-1	-2	12
AURKB	0.3	1.5	2.3	15	EPHA3	-6	4.3	2.2	6.3	LCK	13	58	12	46	ROS	1.8	6.8	3.8	3.7
AURKC	-1	3.2	4.2	25	EPHA4	-2	17	7.1	10	LOK	3.5	25	8.3	38	RSK1	0.8	1.8	0.6	8
AXL	0.9	1.5	-4	1.1	EPHB2	-0	21	8.4	24	LRRK2	7.1	27	8.7	27	RSK2	0.8	2.2	1.2	5.4
BLK	3.2	27	3.9	24	EPHB3	-2	-1	5.6	4.3	LTK	3.6	31	3.6	4	RSK3	0.6	1.1	1.5	5.6
BMX	0.5	19	0.2	4	EPHB4	-0	5.9	-1	6.6	LYNA	9.7	49	9.1	39	RSK4	0.1	1	0.8	3.8
BRAF	-0	12	3.5	5.2	ERBB2	-5	-3	2.1	2.1	LYNB	6	43	7.4	34	SGK1	1.1	-2	1.1	0.8
BRK	13	66	13	57	ERBB4	-5	0.9	6.1	11	MAP4K2	18	53	21	65	SGK2	2.7	1.3	2.3	0.2
BRSK1	2.3	-0	3	17	FER	0.8	7.5	2.8	3.7	MAP4K4	46	89	31	81	SGK3	-2	-1	1.6	2.3
BRSK2	0.9	2.7	4.4	22	FES	-1	-1	2.2	2.4	MAPK1	-3	9.9	2.6	1.4	SIK	9.4	57	63	96
BTK	0.5	6.6	0.5	1.8	FGFR1	-1	-3	3.4	19	MAPK3	-0	-1	1.9	-2	SPHK1	-4	-1	-11	
CAMK1δ	-2	-1	0.8	0.9	FGFR2	0.3	1.1	5	18	MAPKAPK2	-2	-1	0.7	-0	SPHK2	-2	4.4	-1	-3
CAMK2α	-2	-2	-0	-8	FGFR3	-2	0.2	5	16	MAPKAPK3	-1	-2	1.6	0.5	SRC	5.1	40	8	33
CAMK2δ	-1	1.4	3.1	8.7	FGFR4	4	-0	0.3	2.4	MARK1	1.3	4.5	13	62	SRMS	0.8	17	-1	8.9
CAMK4	-1	-1	0.1	-0	FGR	6.7	37	13	53	MARK3	2.6	5.6	11	63	SRPK1	3.2	2.7	-1	-2
CDK1/cycB	1	1.5	0.5	5	FLT1	0	-2	0	17	MARK4	2.4	7.2	13	61	SYK	-0	-2	-1	-12
CDK2/cycA	-0	-0	1.2	4.1	FLT3	-2	0.4	3.4	12	MEK1	-1	10	1.4	1	TBK1	1.5	3.7	4.5	16
CDK2/cycE	0.2	1.5	2.8	5.3	FLT4	0.6	1.4	3.4	13	MER	5.1	40	4.4	10	TEC	0.3	14	1.8	5.5
CDK3/cycE	1.6	-91	1.6	7	FMS	6.1	33	3.7	26	MET	0.6	-2	6.2	8.4	TIE2	1	3	2	16
CDK4/cycD	0.1	1.3	0.8	8.3	FYN	10	43	18	60	MINK	36	86	26	71	TNK1	0.4	10	18	63
CDK5/p35	0.3	1.9	1.4	8.5	GRK6	0.2	1.4	-0	0.2	MKNK1	0.7	1.3	7.1	37	TNK2	3.6	31	2	10
CDK6/cycD3	1.7	2.8	7.2	22	GRK7	0.2	-3	1.8	0.8	MNK2	1.9	3.2	3.7	31	TRKA	1.5	2.8	1.9	7.2
CHEK1	-1	-2	2.9	0.3	GSK3α	0.6	2.1	3.2	1.1	MRCKα	2	6.9	0.8	6.8	TRKB	1.8	3.9	0.8	3
CHEK2	-1	2.5	1.5	2	GSK3β	0.5	1.6	2.7	2.1	MRCKβ	0.6	2	-0	2.1	TRKC	2.7	2.4	1.6	3.9
CK1α	-0	7.2	14	56	HCK	8.9	51	9.7	33	MSK1	-2	-1	1.1	1.3	TSSK1	-1	-2	3.5	5.2
CK1γ1	-0	6.1	3.1	14	HIPK1	1.7	3.1	0.6	4.4	MSK2	-1	1	0.9	0.8	TSSK2	-1	-3	0	0.5
CK1γ2	-1	5.5	1.6	3.9	HIPK4	0.8	4.2	-0	4.9	MSSK1	1.8	-0	-3	1.5	TTK	-4	-1	4.5	7.6
CK1γ3	2.7	19	2.3	5.5	IGF1R	-3	-1	4.1	5.4	MST1	-1	1.1	4	7.9	TXK	2.8	36	4.1	16
CK2	6.2	2.8	0.7	4.2	IKK-α	7.4	2.7	3	-2	MST2	-2	-1	5.1	6	TYK2	-0	1.8	-1	-2
CLK2	-0	0	2.3	35	IKK-β	-2	1.3	0.3	1.4	MST4	0.4	0	-1	-5	TYRO3	1.8	19	13	58
CLK3	1.4	1.5	0.5	2.6	IKK-ε	-6	-2	7.5	7.4	MUSK	1.2	-1	5.8	26	YES	4.9	34	12	50
cRAF	-5	-8	0.6	0.1	INSR	-4	0.7	3.8	4.5	NEK1	-1	0.8	2.1	3.4	ZAP70	-2	1	4.7	1