

Table S1. Differential scanning fluorimetry screening against 80 recombinant human kinases.

Kinase	Tm shift (°C)			Kinase	Tm shift (°C)		
	Dorsomorphin	LDN-193189	K02288		Dorsomorphin	LDN-193189	K02288
AAK1	3.8		0.5	JNK1	0.0	0.5	0.2
ActRIIA	6.1	8.6	8.3	JNK2	0.4	-0.6	-0.1
AKT3	0.5		0.5	LOK	2.5	3.1	2.1
ALK1	10.6	15.7	14.2	MEK2	-0.1	2.1	2.4
ALK2	10.3	14.3	13.1	MEK6	0.1		1.9
ALK3		14.0	12.8	MPSK1	5.3	5.3	0.3
ALK4	6.1	11.0	8.2	MRCKβ	0.0	0.6	0.4
ALK5	7.4	12.0	11.6	MST3	4.6	7.9	0.3
ALK6	12.4	17.1	13.9	MST4	0.7	0.8	0.2
AMPKα1	3.9	4.3	0.2	MYLK4	4.3		1
AMPKα2	7.1	8.3	1.2	NDR1	2.8		0.1
BMPRII	1.5	-0.4	3.5	NEK1	0.1	0.2	0.2
BMX	1.4		1.0	NEK11	2	-0.3	0.3
BRK	2.8		0.0	OSR1	1.6	0.9	0.0
CAMK1δ	-0.3		-0.3	p38β	1.1		0.5
CDK2	2.5	0.7	0.1	p38δ	0.0	-0.4	-0.2
CDK8	0.5		0.1	PCTAIRE1	4.7		-1.8
CDKL1	2.0		0.0	PIM1	0.6	0.5	0.1
CHEK2	1.7	1.4	0.0	PIM2	0.6	-1.3	0.1
CK1γ1	0.4	0.3	0.7	PIM3	0.6	-0.2	-0.2
CK1γ3	1.2		2.0	PKCη	0.9		1.2
CK1ε	5.9		4.5	PKD2	0.1		0.2
CK2α1	3.8		0.3	PKD3	0.9		1.2
CLK1	8.3		-0.1	PKMYT1	0.1		-0.4
CLK2	5.0	3.3	0.0	PKN1	2.3	2.3	0.5
CLK3	3.7	0.7	0.0	PLK4	4.2	3.7	0.0
CLK4	8.7	5.3	0.3	PRKX	2.9		0.2
DAPK3	1.2		0.2	PTK7	-1.2	-0.3	-1.3
DCAMKL1	0.3		0.1	RSK1	2.8	3.3	1.1
DRAK1	9.0		1.0	RSK4	2.7		1.4
DRAK2	10.0	2.1	0.6	SLK	1.6	1.2	1.0
DYRK1A	4.4		-0.9	SRPK2	0.2		0.2
DYRK2	5.1		0.3	STK33	4.2	6.5	1.1
ERK1	0.0	0.2	0.2	TNIK	4.2	4.6	6.1
FES	0.5	0.4	0.4	TOPK	0.3		-0.2
GAK	4.3		6.9	TTK	1.0		1.1
GRK1	0.4	-0.7	0.0	VRK1	0.4		0.5
GRK3	-0.1		0.1	VRK2	0.2	-0.2	0.6
GUCY2D	-0.1	-0.2		YANK1	0.5	1.2	0.2
Haspin	2.3	0.4	0.3	ZAK	0.5	2.7	-0.1