

**Supplementary Table 1. *In-vitro* IC50s for the listed kinases against sorafenib.**

*In-vitro* kinase assays were performed against sorafenib with a staurosporine positive control across a concentration range of 0.5 nM to 10  $\mu$ M). Blank values are those for which no significant inhibition occurred over the entire concentration range.

<b>Kinase</b>	<b>Sorafenib IC50 (nM)</b>	<b>Staurosporine IC50 (nM)</b>
ASK1/MAP3K5		5.31
BRAF	85.62	ND
COT1/MAP3K8		ND
DLK/MAP3K12		34.90
GCK/MAP4K2		<1.0
HGK/MAP4K4	1680.00	<1.0
HPK1/MAP4K1	>10000	ND
JNK1		1119.00
JNK2	9957.00	781.60
JNK3		ND
KHS/MAP4K5	653.30	<1.0
MEKK1	5518.00	443.20
MEKK2	>10000	4.82
MEKK3		3.15
MINK/MINK1	3390.00	<1.0
MKK4		619.90
MKK6		5.43
MLK1/MAP3K9		<1.0
MLK2/MAP3K10	>10000	1.50
MLK3/MAP3K11	7177.00	1.22
MST1/STK4		<1.0
NIK/MAP3K14		1106.00
OSR1/OXSR1		36.84
P38a/MAPK14	106.00	ND
P38b/MAPK11	209.10	ND
P38d/MAPK13	8981.00	40.52
P38g	>10000	116.90
PAK1		<1.0
PAK5		1.92
RAF1	5.65	ND
SLK/STK2	7316.00	6.51
STK39/STLK3		9.78
TAK1	1945.00	17.37
TAOK1	853.70	<1.0
TAOK2/TAO1	59.77	1.18
TAOK3/JIK	894.70	<1.0
TNIK	3389.00	<1.0
ZAK/MLTK	48.59	ND