Supporting Information

Identification of New Mono/Dihydroxynaphthoquinone as Lead Agents that Inhibit the Growth of Refractive and Triple-negative Breast Cancer Cell lines

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Table S1: High throughput assay of Compound **7** against a panel of 100 disease relevant kinases at a concentration of 10μM performed by Thermo Fisher Scientific's SelectScreen™ Profiling Service.

Kinase	% Inhibited
ABL1	35
ABL2 (Arg)	37
AKT1 (PKB alpha)	84
AKT2 (PKB beta)	99
ALK	-181
AURKA (Aurora A)	90
AURKB (Aurora B)	81
AURKC (Aurora C)	52
AXL	63
BRAF	76
BTK	49
CDC42 BPA (MRCKA)	-123
CDC42 BPB (MRCKB)	3
CDK1/cyclin B	28
CDK2/cyclin A	7
CDK5/p25	18
CDK7/cyclin H/MNAT1	26
CDK9/cyclin T1	34
CHEK1 (CHK1)	32
CHEK2 (CHK2)	93
CSF1R (FMS)	-40
CSNK1E (CK1 epsilon)	20
CSNK2A1 (CK2 alpha 1)	14
EGFR (ErbB1)	53
EGFR (ErbB1) d746-750	-84
EPHA1	42
EPHA2	-8
EPHA3	-50
EPHB2	17
EPHB4	24
ERBB2 (HER2)	29
ERBB4 (HER4)	57
FER	77
FES (FPS)	85
FGFR1	111
FGFR3 G697C	-89
FGFR4	60
FGR	86
FLT1 (VEGFR1)	39
FLT3	41
FLT3 ITD	-447
FLT4 (VEGFR3)	65
FRAP1 (mTOR)	42
FYN	48
GSG2 (Haspin)	51
HCK	14
IGF1R	3
IKBKB (IKK beta)	80
IKBKE (IKK epsilon)	18

Kinase	% Inhibited
JAK1	1
JAK2	14
JAK2 JH1 JH2	26
JAK3	-65
KDR (VEGFR2)	65
KIT	22
KIT A829P	-68
LCK	37
LYN A	16
MAP2K1 (MEK1)	93
MAP3K14 (NIK)	53
MAP3K8 (COT)	90
MAP4K4 (HGK)	54
MAPK14 (p38 alpha) Direct	-31
MATK (HYL)	-18
MET (cMet)	41
MST1R (RON)	28
MST4	50
NEK2	90
NTRK1 (TRKA)	-10
PAK4	31
PDGFRA (PDGFR alpha)	28
PDGFRB (PDGFR beta)	39
PDK1 Direct	62
PIK3CA/PIK3R1 (p110 alpha/p85 alpha)	42
PIK3CG (p110 gamma)	34
PIM1	7
PLK1	98
PLK3	97
PRKCB2 (PKC beta II)	59
PTK2 (FAK)	8
PTK2B (FAK2)	38
PTK6 (Brk)	10
RAF1 (cRAF) Y340D Y341D	80
RET	46
ROCK1	7
ROS1	9
RPS6KB1 (p70S6K)	65
SGK (SGK1)	88
SPHK1	64
SRC	41
STK33	19
SYK	19
TBK1	0
TEK (Tie2)	80
TNK2 (ACK)	39
TTK	-15
TYRO3 (RSE)	30
WEE1	-24
YES1	43

Legend
< 40% Inhibition
40% - 80% Inhibition
≥ 80% Inhibition