

Clinical Activity, Pharmacokinetics, and Pharmacodynamics of the Multikinase Inhibitor Sorafenib in Pediatric Acute Myeloid Leukemia

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Data Supplement

Table A1. Primary screen of sorafenib and sorafenib N-oxide at 10 μ M against 442 kinases.

Compound Name	Ambit Gene Symbol	Entrez Gene Symbol	Percent Control
Sorafenib	AAK1	AAK1	100
Sorafenib	ABL1(E255K)-phosphorylated	ABL1	32
Sorafenib	ABL1(F317I)-nonphosphorylated	ABL1	47
Sorafenib	ABL1(F317I)-phosphorylated	ABL1	25
Sorafenib	ABL1(F317L)-nonphosphorylated	ABL1	2.6
Sorafenib	ABL1(F317L)-phosphorylated	ABL1	6.6
Sorafenib	ABL1(H396P)-nonphosphorylated	ABL1	0.35
Sorafenib	ABL1(H396P)-phosphorylated	ABL1	31
Sorafenib	ABL1(M351T)-phosphorylated	ABL1	14
Sorafenib	ABL1(Q252H)-nonphosphorylated	ABL1	5
Sorafenib	ABL1(Q252H)-phosphorylated	ABL1	27
Sorafenib	ABL1(T315I)-nonphosphorylated	ABL1	3.2
Sorafenib	ABL1(T315I)-phosphorylated	ABL1	18
Sorafenib	ABL1(Y253F)-phosphorylated	ABL1	26
Sorafenib	ABL1-nonphosphorylated	ABL1	0.3
Sorafenib	ABL1-phosphorylated	ABL1	16
Sorafenib	ABL2	ABL2	26
Sorafenib	ACVR1	ACVR1	100
Sorafenib	ACVR1B	ACVR1B	56
Sorafenib	ACVR2A	ACVR2A	100
Sorafenib	ACVR2B	ACVR2B	68
Sorafenib	ACVRL1	ACVRL1	100
Sorafenib	ADCK3	CABC1	90
Sorafenib	ADCK4	ADCK4	90
Sorafenib	AKT1	AKT1	100
Sorafenib	AKT2	AKT2	86
Sorafenib	AKT3	AKT3	90
Sorafenib	ALK	ALK	100
Sorafenib	AMPK-alpha1	PRKAA1	32
Sorafenib	AMPK-alpha2	PRKAA2	60
Sorafenib	ANKK1	ANKK1	94
Sorafenib	ARK5	NUAK1	74
Sorafenib	ASK1	MAP3K5	100
Sorafenib	ASK2	MAP3K6	72
Sorafenib	AURKA	AURKA	83
Sorafenib	AURKB	AURKB	0
Sorafenib	AURKC	AURKC	12
Sorafenib	AXL	AXL	5.4
Sorafenib	BIKE	BMP2K	65
Sorafenib	BLK	BLK	28
Sorafenib	BMPR1A	BMPR1A	100
Sorafenib	BMPR1B	BMPR1B	93
Sorafenib	BMPR2	BMPR2	100
Sorafenib	BMX	BMX	94
Sorafenib	BRAF	BRAF	0.65
Sorafenib	BRAF(V600E)	BRAF	0.2
Sorafenib	BRK	PTK6	93

Sorafenib	BRSK1	BRSK1	100
Sorafenib	BRSK2	BRSK2	98
Sorafenib	BTK	BTK	62
Sorafenib	CAMK1	CAMK1	87
Sorafenib	CAMK1D	CAMK1D	88
Sorafenib	CAMK1G	CAMK1G	87
Sorafenib	CAMK2A	CAMK2A	93
Sorafenib	CAMK2B	CAMK2B	96
Sorafenib	CAMK2D	CAMK2D	89
Sorafenib	CAMK2G	CAMK2G	100
Sorafenib	CAMK4	CAMK4	42
Sorafenib	CAMKK1	CAMKK1	100
Sorafenib	CAMKK2	CAMKK2	100
Sorafenib	CASK	CASK	100
Sorafenib	CDC2L1	CDC2L1	93
Sorafenib	CDC2L2	CDC2L2	77
Sorafenib	CDC2L5	CDC2L5	98
Sorafenib	CDK11	CDC2L6	0.7
Sorafenib	CDK2	CDK2	15
Sorafenib	CDK3	CDK3	41
Sorafenib	CDK4-cyclinD1	CDK4	66
Sorafenib	CDK4-cyclinD3	CDK4	100
Sorafenib	CDK5	CDK5	22
Sorafenib	CDK7	CDK7	3.2
Sorafenib	CDK8	CDK8	4.4
Sorafenib	CDK9	CDK9	62
Sorafenib	CDKL1	CDKL1	75
Sorafenib	CDKL2	CDKL2	0.05
Sorafenib	CDKL3	CDKL3	0.35
Sorafenib	CDKL5	CDKL5	67
Sorafenib	CHEK1	CHEK1	49
Sorafenib	CHEK2	CHEK2	63
Sorafenib	CIT	CIT	20
Sorafenib	CLK1	CLK1	29
Sorafenib	CLK2	CLK2	94
Sorafenib	CLK3	CLK3	84
Sorafenib	CLK4	CLK4	30
Sorafenib	CSF1R	CSF1R	0
Sorafenib	CSK	CSK	52
Sorafenib	CSNK1A1	CSNK1A1	100
Sorafenib	CSNK1A1L	CSNK1A1L	100
Sorafenib	CSNK1D	CSNK1D	84
Sorafenib	CSNK1E	CSNK1E	99
Sorafenib	CSNK1G1	CSNK1G1	100
Sorafenib	CSNK1G2	CSNK1G2	100
Sorafenib	CSNK1G3	CSNK1G3	100
Sorafenib	CSNK2A1	CSNK2A1	100
Sorafenib	CSNK2A2	CSNK2A2	82
Sorafenib	CTK	MATK	64
Sorafenib	DAPK1	DAPK1	95
Sorafenib	DAPK2	DAPK2	100
Sorafenib	DAPK3	DAPK3	94

Sorafenib	DCAMKL1	DCLK1	62
Sorafenib	DCAMKL2	DCLK2	95
Sorafenib	DCAMKL3	DCLK3	100
Sorafenib	DDR1	DDR1	0
Sorafenib	DDR2	DDR2	13
Sorafenib	DLK	MAP3K12	100
Sorafenib	DMPK	DMPK	90
Sorafenib	DMPK2	CDC42BPG	84
Sorafenib	DRAK1	STK17A	58
Sorafenib	DRAK2	STK17B	66
Sorafenib	DYRK1A	DYRK1A	100
Sorafenib	DYRK1B	DYRK1B	67
Sorafenib	DYRK2	DYRK2	60
Sorafenib	EGFR	EGFR	79
Sorafenib	EGFR(E746-A750del)	EGFR	88
Sorafenib	EGFR(G719C)	EGFR	84
Sorafenib	EGFR(G719S)	EGFR	98
Sorafenib	EGFR(L747-E749del, A750P)	EGFR	69
Sorafenib	EGFR(L747-S752del, P753S)	EGFR	80
Sorafenib	EGFR(L747-T751del,Sins)	EGFR	90
Sorafenib	EGFR(L858R)	EGFR	92
Sorafenib	EGFR(L858R,T790M)	EGFR	91
Sorafenib	EGFR(L861Q)	EGFR	74
Sorafenib	EGFR(S752-I759del)	EGFR	89
Sorafenib	EGFR(T790M)	EGFR	100
Sorafenib	EIF2AK1	EIF2AK1	100
Sorafenib	EPHA1	EPHA1	11
Sorafenib	EPHA2	EPHA2	9
Sorafenib	EPHA3	EPHA3	4
Sorafenib	EPHA4	EPHA4	15
Sorafenib	EPHA5	EPHA5	16
Sorafenib	EPHA6	EPHA6	1.6
Sorafenib	EPHA7	EPHA7	7.6
Sorafenib	EPHA8	EPHA8	0.9
Sorafenib	EPHB1	EPHB1	18
Sorafenib	EPHB2	EPHB2	12
Sorafenib	EPHB3	EPHB3	53
Sorafenib	EPHB4	EPHB4	8.6
Sorafenib	EPHB6	EPHB6	2.4
Sorafenib	ERBB2	ERBB2	100
Sorafenib	ERBB3	ERBB3	70
Sorafenib	ERBB4	ERBB4	92
Sorafenib	ERK1	MAPK3	95
Sorafenib	ERK2	MAPK1	100
Sorafenib	ERK3	MAPK6	94
Sorafenib	ERK4	MAPK4	79
Sorafenib	ERK5	MAPK7	81
Sorafenib	ERK8	MAPK15	1.1
Sorafenib	ERN1	ERN1	92
Sorafenib	FAK	PTK2	100
Sorafenib	FER	FER	77
Sorafenib	FES	FES	72

Sorafenib	FGFR1	FGFR1	3.4
Sorafenib	FGFR2	FGFR2	6.4
Sorafenib	FGFR3	FGFR3	20
Sorafenib	FGFR3(G697C)	FGFR3	25
Sorafenib	FGFR4	FGFR4	43
Sorafenib	FGR	FGR	41
Sorafenib	FLT1	FLT1	0.7
Sorafenib	FLT3	FLT3	0.05
Sorafenib	FLT3(D835H)	FLT3	0.45
Sorafenib	FLT3(D835Y)	FLT3	1.6
Sorafenib	FLT3(ITD)	FLT3	0.5
Sorafenib	FLT3(K663Q)	FLT3	0.25
Sorafenib	FLT3(N841I)	FLT3	0
Sorafenib	FLT3(R834Q)	FLT3	12
Sorafenib	FLT4	FLT4	0
Sorafenib	FRK	FRK	2.2
Sorafenib	FYN	FYN	35
Sorafenib	GAK	GAK	62
Sorafenib	GCN2(Kin.Dom.2,S808G)	EIF2AK4	60
Sorafenib	GRK1	GRK1	100
Sorafenib	GRK4	GRK4	99
Sorafenib	GRK7	GRK7	100
Sorafenib	GSK3A	GSK3A	100
Sorafenib	GSK3B	GSK3B	92
Sorafenib	HCK	HCK	14
Sorafenib	HIPK1	HIPK1	17
Sorafenib	HIPK2	HIPK2	3.6
Sorafenib	HIPK3	HIPK3	1.2
Sorafenib	HIPK4	HIPK4	4.5
Sorafenib	HPK1	MAP4K1	19
Sorafenib	HUNK	HUNK	90
Sorafenib	ICK	ICK	100
Sorafenib	IGF1R	IGF1R	100
Sorafenib	IKK-alpha	CHUK	93
Sorafenib	IKK-beta	IKBKB	100
Sorafenib	IKK-epsilon	IKBKE	100
Sorafenib	INSR	INSR	100
Sorafenib	INSRR	INSRR	86
Sorafenib	IRAK1	IRAK1	76
Sorafenib	IRAK3	IRAK3	76
Sorafenib	IRAK4	IRAK4	100
Sorafenib	ITK	ITK	100
Sorafenib	JAK1(JH1domain-catalytic)	JAK1	42
Sorafenib	JAK1(JH2domain-pseudokinase)	JAK1	97
Sorafenib	JAK2(JH1domain-catalytic)	JAK2	70
Sorafenib	JAK3(JH1domain-catalytic)	JAK3	100
Sorafenib	JNK1	MAPK8	88
Sorafenib	JNK2	MAPK9	21
Sorafenib	JNK3	MAPK10	90
Sorafenib	KIT	KIT	0
Sorafenib	KIT(A829P)	KIT	55
Sorafenib	KIT(D816H)	KIT	24

Sorafenib	KIT(D816V)	KIT	1.4
Sorafenib	KIT(L576P)	KIT	0
Sorafenib	KIT(V559D)	KIT	0
Sorafenib	KIT(V559D,T670I)	KIT	0
Sorafenib	KIT(V559D,V654A)	KIT	0.45
Sorafenib	LATS1	LATS1	79
Sorafenib	LATS2	LATS2	100
Sorafenib	LCK	LCK	3.3
Sorafenib	LIMK1	LIMK1	7.6
Sorafenib	LIMK2	LIMK2	53
Sorafenib	LKB1	STK11	98
Sorafenib	LOK	STK10	0
Sorafenib	LRRK2	LRRK2	86
Sorafenib	LRRK2(G2019S)	LRRK2	62
Sorafenib	LTK	LTK	76
Sorafenib	LYN	LYN	11
Sorafenib	LZK	MAP3K13	88
Sorafenib	MAK	MAK	38
Sorafenib	MAP3K1	MAP3K1	89
Sorafenib	MAP3K15	MAP3K15	79
Sorafenib	MAP3K2	MAP3K2	100
Sorafenib	MAP3K3	MAP3K3	97
Sorafenib	MAP3K4	MAP3K4	94
Sorafenib	MAP4K2	MAP4K2	93
Sorafenib	MAP4K3	MAP4K3	48
Sorafenib	MAP4K4	MAP4K4	8.7
Sorafenib	MAP4K5	MAP4K5	1.5
Sorafenib	MAPKAPK2	MAPKAPK2	91
Sorafenib	MAPKAPK5	MAPKAPK5	100
Sorafenib	MARK1	MARK1	90
Sorafenib	MARK2	MARK2	67
Sorafenib	MARK3	MARK3	86
Sorafenib	MARK4	MARK4	93
Sorafenib	MAST1	MAST1	100
Sorafenib	MEK1	MAP2K1	95
Sorafenib	MEK2	MAP2K2	88
Sorafenib	MEK3	MAP2K3	93
Sorafenib	MEK4	MAP2K4	85
Sorafenib	MEK5	MAP2K5	0.35
Sorafenib	MEK6	MAP2K6	73
Sorafenib	MELK	MELK	83
Sorafenib	MERTK	MERTK	2.4
Sorafenib	MET	MET	74
Sorafenib	MET(M1250T)	MET	86
Sorafenib	MET(Y1235D)	MET	60
Sorafenib	MINK	MINK1	80
Sorafenib	MKK7	MAP2K7	92
Sorafenib	MKNK1	MKNK1	1.6
Sorafenib	MKNK2	MKNK2	0.1
Sorafenib	MLCK	MYLK3	40
Sorafenib	MLK1	MAP3K9	100
Sorafenib	MLK2	MAP3K10	85

Sorafenib	MLK3	MAP3K11	74
Sorafenib	MRCKA	CDC42BPA	96
Sorafenib	MRCKB	CDC42BPB	100
Sorafenib	MST1	STK4	96
Sorafenib	MST1R	MST1R	76
Sorafenib	MST2	STK3	100
Sorafenib	MST3	STK24	81
Sorafenib	MST4	MST4	99
Sorafenib	MTOR	FRAP1	100
Sorafenib	MUSK	MUSK	0
Sorafenib	MYLK	MYLK	100
Sorafenib	MYLK2	MYLK2	22
Sorafenib	MYLK4	MYLK4	88
Sorafenib	MYO3A	MYO3A	44
Sorafenib	MYO3B	MYO3B	38
Sorafenib	NDR1	STK38	100
Sorafenib	NDR2	STK38L	95
Sorafenib	NEK1	NEK1	94
Sorafenib	NEK11	NEK11	99
Sorafenib	NEK2	NEK2	90
Sorafenib	NEK3	NEK3	100
Sorafenib	NEK4	NEK4	100
Sorafenib	NEK5	NEK5	100
Sorafenib	NEK6	NEK6	100
Sorafenib	NEK7	NEK7	100
Sorafenib	NEK9	NEK9	48
Sorafenib	NIM1	MGC42105	100
Sorafenib	NLK	NLK	19
Sorafenib	OSR1	OXR1	100
Sorafenib	p38-alpha	MAPK14	0.1
Sorafenib	p38-beta	MAPK11	0.05
Sorafenib	p38-delta	MAPK13	21
Sorafenib	p38-gamma	MAPK12	42
Sorafenib	PAK1	PAK1	100
Sorafenib	PAK2	PAK2	95
Sorafenib	PAK3	PAK3	56
Sorafenib	PAK4	PAK4	100
Sorafenib	PAK6	PAK6	86
Sorafenib	PAK7	PAK7	100
Sorafenib	PCK1	PCK1	68
Sorafenib	PCK2	PCK2	13
Sorafenib	PCK3	PCK3	57
Sorafenib	PDGFRA	PDGFRA	0
Sorafenib	PDGFRB	PDGFRB	0
Sorafenib	PDPK1	PDPK1	94
Sorafenib	PFCDPK1(P.falciparum)	PFB0815w	0.8
Sorafenib	PFPK5(P.falciparum)	MAL13P1.279	59
Sorafenib	PFTAIRE2	PFTK2	7.4
Sorafenib	PFTK1	PFTK1	3.1
Sorafenib	PHKG1	PHKG1	73
Sorafenib	PHKG2	PHKG2	100
Sorafenib	PIK3C2B	PIK3C2B	100

Sorafenib	PIK3C2G	PIK3C2G	100
Sorafenib	PIK3CA	PIK3CA	100
Sorafenib	PIK3CA(C420R)	PIK3CA	44
Sorafenib	PIK3CA(E542K)	PIK3CA	100
Sorafenib	PIK3CA(E545A)	PIK3CA	100
Sorafenib	PIK3CA(E545K)	PIK3CA	100
Sorafenib	PIK3CA(H1047L)	PIK3CA	97
Sorafenib	PIK3CA(H1047Y)	PIK3CA	100
Sorafenib	PIK3CA(I800L)	PIK3CA	100
Sorafenib	PIK3CA(M1043I)	PIK3CA	88
Sorafenib	PIK3CA(Q546K)	PIK3CA	100
Sorafenib	PIK3CB	PIK3CB	100
Sorafenib	PIK3CD	PIK3CD	100
Sorafenib	PIK3CG	PIK3CG	95
Sorafenib	PIK4CB	PI4KB	100
Sorafenib	PIM1	PIM1	100
Sorafenib	PIM2	PIM2	89
Sorafenib	PIM3	PIM3	100
Sorafenib	PIP5K1A	PIP5K1A	100
Sorafenib	PIP5K1C	PIP5K1C	79
Sorafenib	PIP5K2B	PIP4K2B	89
Sorafenib	PIP5K2C	PIP4K2C	34
Sorafenib	PKAC-alpha	PRKACA	100
Sorafenib	PKAC-beta	PRKACB	100
Sorafenib	PKMYT1	PKMYT1	93
Sorafenib	PKN1	PKN1	100
Sorafenib	PKN2	PKN2	100
Sorafenib	PKNB(M.tuberculosis)	pknB	100
Sorafenib	PLK1	PLK1	100
Sorafenib	PLK2	PLK2	100
Sorafenib	PLK3	PLK3	100
Sorafenib	PLK4	PLK4	46
Sorafenib	PRKCD	PRKCD	100
Sorafenib	PRKCE	PRKCE	100
Sorafenib	PRKCH	PRKCH	89
Sorafenib	PRKCI	PRKCI	100
Sorafenib	PRKCQ	PRKCQ	76
Sorafenib	PRKD1	PRKD1	100
Sorafenib	PRKD2	PRKD2	100
Sorafenib	PRKD3	PRKD3	70
Sorafenib	PRKG1	PRKG1	100
Sorafenib	PRKG2	PRKG2	100
Sorafenib	PRKR	EIF2AK2	74
Sorafenib	PRKX	PRKX	98
Sorafenib	PRP4	PRPF4B	94
Sorafenib	PYK2	PTK2B	99
Sorafenib	QSK	KIAA0999	100
Sorafenib	RAF1	RAF1	0.7
Sorafenib	RET	RET	0
Sorafenib	RET(M918T)	RET	0
Sorafenib	RET(V804L)	RET	0
Sorafenib	RET(V804M)	RET	0

Sorafenib	RIOK1	RIOK1	100
Sorafenib	RIOK2	RIOK2	48
Sorafenib	RIOK3	RIOK3	88
Sorafenib	RIPK1	RIPK1	88
Sorafenib	RIPK2	RIPK2	5.3
Sorafenib	RIPK4	RIPK4	100
Sorafenib	RIPK5	DSTKY	100
Sorafenib	ROCK1	ROCK1	84
Sorafenib	ROCK2	ROCK2	90
Sorafenib	ROS1	ROS1	79
Sorafenib	RPS6KA4(Kin.Dom.1-N-terminal)	RPS6KA4	81
Sorafenib	RPS6KA4(Kin.Dom.2-C-terminal)	RPS6KA4	100
Sorafenib	RPS6KA5(Kin.Dom.1-N-terminal)	RPS6KA5	77
Sorafenib	RPS6KA5(Kin.Dom.2-C-terminal)	RPS6KA5	81
Sorafenib	RSK1(Kin.Dom.1-N-terminal)	RPS6KA1	84
Sorafenib	RSK1(Kin.Dom.2-C-terminal)	RPS6KA1	77
Sorafenib	RSK2(Kin.Dom.1-N-terminal)	RPS6KA3	99
Sorafenib	RSK3(Kin.Dom.1-N-terminal)	RPS6KA2	61
Sorafenib	RSK3(Kin.Dom.2-C-terminal)	RPS6KA2	59
Sorafenib	RSK4(Kin.Dom.1-N-terminal)	RPS6KA6	100
Sorafenib	RSK4(Kin.Dom.2-C-terminal)	RPS6KA6	16
Sorafenib	S6K1	RPS6KB1	46
Sorafenib	SBK1	SBK1	100
Sorafenib	SgK110	SgK110	91
Sorafenib	SGK3	SGK3	72
Sorafenib	SIK	SIK1	79
Sorafenib	SIK2	SIK2	74
Sorafenib	SLK	SLK	9.2
Sorafenib	SNARK	NUAK2	100
Sorafenib	SNRK	SNRK	100
Sorafenib	SRC	SRC	17
Sorafenib	SRMS	SRMS	96
Sorafenib	SRPK1	SRPK1	100
Sorafenib	SRPK2	SRPK2	100
Sorafenib	SRPK3	SRPK3	84
Sorafenib	STK16	STK16	94
Sorafenib	STK33	STK33	6
Sorafenib	STK35	STK35	7.8
Sorafenib	STK36	STK36	16
Sorafenib	STK39	STK39	76
Sorafenib	SYK	SYK	77
Sorafenib	TAK1	MAP3K7	2.6
Sorafenib	TAOK1	TAOK1	12
Sorafenib	TAOK2	TAOK2	0.65
Sorafenib	TAOK3	TAOK3	0.65
Sorafenib	TBK1	TBK1	100
Sorafenib	TEC	TEC	100
Sorafenib	TESK1	TESK1	72
Sorafenib	TGFBR1	TGFBR1	100
Sorafenib	TGFBR2	TGFBR2	25
Sorafenib	TIE1	TIE1	0.25
Sorafenib	TIE2	TEK	2.8

Sorafenib	TLK1	TLK1	74
Sorafenib	TLK2	TLK2	99
Sorafenib	TNIK	TNIK	21
Sorafenib	TNK1	TNK1	14
Sorafenib	TNK2	TNK2	99
Sorafenib	TNNI3K	TNNI3K	2.4
Sorafenib	TRKA	NTRK1	22
Sorafenib	TRKB	NTRK2	6.1
Sorafenib	TRKC	NTRK3	1.1
Sorafenib	TRPM6	TRPM6	100
Sorafenib	TSSK1B	TSSK1B	98
Sorafenib	TTK	TTK	15
Sorafenib	TXK	TXK	98
Sorafenib	TYK2(JH1domain-catalytic)	TYK2	100
Sorafenib	TYK2(JH2domain-pseudokinase)	TYK2	93
Sorafenib	TYRO3	TYRO3	100
Sorafenib	ULK1	ULK1	89
Sorafenib	ULK2	ULK2	94
Sorafenib	ULK3	ULK3	100
Sorafenib	VEGFR2	KDR	0.3
Sorafenib	VRK2	VRK2	100
Sorafenib	WEE1	WEE1	100
Sorafenib	WEE2	WEE2	100
Sorafenib	YANK1	STK32A	100
Sorafenib	YANK2	STK32B	100
Sorafenib	YANK3	STK32C	72
Sorafenib	YES	YES1	41
Sorafenib	YSK1	STK25	100
Sorafenib	YSK4	YSK4	0
Sorafenib	ZAK	ZAK	0.6
Sorafenib	ZAP70	ZAP70	91
Sorafenib N-oxide	AAK1	AAK1	100
Sorafenib N-oxide	ABL1(E255K)-phosphorylated	ABL1	38
Sorafenib N-oxide	ABL1(F317I)-nonphosphorylated	ABL1	52
Sorafenib N-oxide	ABL1(F317I)-phosphorylated	ABL1	34
Sorafenib N-oxide	ABL1(F317L)-nonphosphorylated	ABL1	0.15
Sorafenib N-oxide	ABL1(F317L)-phosphorylated	ABL1	26
Sorafenib N-oxide	ABL1(H396P)-nonphosphorylated	ABL1	0.7
Sorafenib N-oxide	ABL1(H396P)-phosphorylated	ABL1	46
Sorafenib N-oxide	ABL1(M351T)-phosphorylated	ABL1	21
Sorafenib N-oxide	ABL1(Q252H)-nonphosphorylated	ABL1	5.4
Sorafenib N-oxide	ABL1(Q252H)-phosphorylated	ABL1	35
Sorafenib N-oxide	ABL1(T315I)-nonphosphorylated	ABL1	4
Sorafenib N-oxide	ABL1(T315I)-phosphorylated	ABL1	16
Sorafenib N-oxide	ABL1(Y253F)-phosphorylated	ABL1	30
Sorafenib N-oxide	ABL1-nonphosphorylated	ABL1	0.15
Sorafenib N-oxide	ABL1-phosphorylated	ABL1	18
Sorafenib N-oxide	ABL2	ABL2	25
Sorafenib N-oxide	ACVR1	ACVR1	100
Sorafenib N-oxide	ACVR1B	ACVR1B	44
Sorafenib N-oxide	ACVR2A	ACVR2A	89
Sorafenib N-oxide	ACVR2B	ACVR2B	22

Sorafenib N-oxide	ACVRL1	ACVRL1	96
Sorafenib N-oxide	ADCK3	CABC1	86
Sorafenib N-oxide	ADCK4	ADCK4	81
Sorafenib N-oxide	AKT1	AKT1	100
Sorafenib N-oxide	AKT2	AKT2	88
Sorafenib N-oxide	AKT3	AKT3	93
Sorafenib N-oxide	ALK	ALK	94
Sorafenib N-oxide	AMPK-alpha1	PRKAA1	36
Sorafenib N-oxide	AMPK-alpha2	PRKAA2	49
Sorafenib N-oxide	ANKK1	ANKK1	58
Sorafenib N-oxide	ARK5	NUAK1	100
Sorafenib N-oxide	ASK1	MAP3K5	89
Sorafenib N-oxide	ASK2	MAP3K6	64
Sorafenib N-oxide	AURKA	AURKA	26
Sorafenib N-oxide	AURKB	AURKB	0
Sorafenib N-oxide	AURKC	AURKC	15
Sorafenib N-oxide	AXL	AXL	1.8
Sorafenib N-oxide	BIKE	BMP2K	100
Sorafenib N-oxide	BLK	BLK	11
Sorafenib N-oxide	BMPR1A	BMPR1A	91
Sorafenib N-oxide	BMPR1B	BMPR1B	81
Sorafenib N-oxide	BMPR2	BMPR2	98
Sorafenib N-oxide	BMX	BMX	67
Sorafenib N-oxide	BRAF	BRAF	1.9
Sorafenib N-oxide	BRAF(V600E)	BRAF	0.1
Sorafenib N-oxide	BRK	PTK6	100
Sorafenib N-oxide	BRSK1	BRSK1	76
Sorafenib N-oxide	BRSK2	BRSK2	100
Sorafenib N-oxide	BTK	BTK	30
Sorafenib N-oxide	CAMK1	CAMK1	58
Sorafenib N-oxide	CAMK1D	CAMK1D	75
Sorafenib N-oxide	CAMK1G	CAMK1G	76
Sorafenib N-oxide	CAMK2A	CAMK2A	96
Sorafenib N-oxide	CAMK2B	CAMK2B	89
Sorafenib N-oxide	CAMK2D	CAMK2D	87
Sorafenib N-oxide	CAMK2G	CAMK2G	96
Sorafenib N-oxide	CAMK4	CAMK4	54
Sorafenib N-oxide	CAMKK1	CAMKK1	79
Sorafenib N-oxide	CAMKK2	CAMKK2	68
Sorafenib N-oxide	CASK	CASK	100
Sorafenib N-oxide	CDC2L1	CDC2L1	100
Sorafenib N-oxide	CDC2L2	CDC2L2	99
Sorafenib N-oxide	CDC2L5	CDC2L5	40
Sorafenib N-oxide	CDK11	CDC2L6	0.35
Sorafenib N-oxide	CDK2	CDK2	1.8
Sorafenib N-oxide	CDK3	CDK3	13
Sorafenib N-oxide	CDK4-cyclinD1	CDK4	74
Sorafenib N-oxide	CDK4-cyclinD3	CDK4	62
Sorafenib N-oxide	CDK5	CDK5	12
Sorafenib N-oxide	CDK7	CDK7	5
Sorafenib N-oxide	CDK8	CDK8	0.6
Sorafenib N-oxide	CDK9	CDK9	73

Sorafenib N-oxide	CDKL1	CDKL1	45
Sorafenib N-oxide	CDKL2	CDKL2	0.1
Sorafenib N-oxide	CDKL3	CDKL3	0.3
Sorafenib N-oxide	CDKL5	CDKL5	27
Sorafenib N-oxide	CHEK1	CHEK1	79
Sorafenib N-oxide	CHEK2	CHEK2	21
Sorafenib N-oxide	CIT	CIT	27
Sorafenib N-oxide	CLK1	CLK1	46
Sorafenib N-oxide	CLK2	CLK2	80
Sorafenib N-oxide	CLK3	CLK3	100
Sorafenib N-oxide	CLK4	CLK4	47
Sorafenib N-oxide	CSF1R	CSF1R	0
Sorafenib N-oxide	CSK	CSK	1
Sorafenib N-oxide	CSNK1A1	CSNK1A1	100
Sorafenib N-oxide	CSNK1A1L	CSNK1A1L	100
Sorafenib N-oxide	CSNK1D	CSNK1D	91
Sorafenib N-oxide	CSNK1E	CSNK1E	100
Sorafenib N-oxide	CSNK1G1	CSNK1G1	96
Sorafenib N-oxide	CSNK1G2	CSNK1G2	100
Sorafenib N-oxide	CSNK1G3	CSNK1G3	96
Sorafenib N-oxide	CSNK2A1	CSNK2A1	94
Sorafenib N-oxide	CSNK2A2	CSNK2A2	70
Sorafenib N-oxide	CTK	MATK	62
Sorafenib N-oxide	DAPK1	DAPK1	85
Sorafenib N-oxide	DAPK2	DAPK2	100
Sorafenib N-oxide	DAPK3	DAPK3	100
Sorafenib N-oxide	DCAMKL1	DCLK1	53
Sorafenib N-oxide	DCAMKL2	DCLK2	87
Sorafenib N-oxide	DCAMKL3	DCLK3	100
Sorafenib N-oxide	DDR1	DDR1	0.05
Sorafenib N-oxide	DDR2	DDR2	19
Sorafenib N-oxide	DLK	MAP3K12	100
Sorafenib N-oxide	DMPK	DMPK	91
Sorafenib N-oxide	DMPK2	CDC42BPG	86
Sorafenib N-oxide	DRAK1	STK17A	66
Sorafenib N-oxide	DRAK2	STK17B	62
Sorafenib N-oxide	DYRK1A	DYRK1A	95
Sorafenib N-oxide	DYRK1B	DYRK1B	69
Sorafenib N-oxide	DYRK2	DYRK2	26
Sorafenib N-oxide	EGFR	EGFR	75
Sorafenib N-oxide	EGFR(E746-A750del)	EGFR	84
Sorafenib N-oxide	EGFR(G719C)	EGFR	80
Sorafenib N-oxide	EGFR(G719S)	EGFR	100
Sorafenib N-oxide	EGFR(L747-E749del, A750P)	EGFR	70
Sorafenib N-oxide	EGFR(L747-S752del, P753S)	EGFR	77
Sorafenib N-oxide	EGFR(L747-T751del,Sins)	EGFR	76
Sorafenib N-oxide	EGFR(L858R)	EGFR	88
Sorafenib N-oxide	EGFR(L858R,T790M)	EGFR	82
Sorafenib N-oxide	EGFR(L861Q)	EGFR	74
Sorafenib N-oxide	EGFR(S752-I759del)	EGFR	96
Sorafenib N-oxide	EGFR(T790M)	EGFR	100
Sorafenib N-oxide	EIF2AK1	EIF2AK1	100

Sorafenib N-oxide	EPHA1	EPHA1	18
Sorafenib N-oxide	EPHA2	EPHA2	4.7
Sorafenib N-oxide	EPHA3	EPHA3	4
Sorafenib N-oxide	EPHA4	EPHA4	13
Sorafenib N-oxide	EPHA5	EPHA5	15
Sorafenib N-oxide	EPHA6	EPHA6	6.6
Sorafenib N-oxide	EPHA7	EPHA7	33
Sorafenib N-oxide	EPHA8	EPHA8	0.3
Sorafenib N-oxide	EPHB1	EPHB1	20
Sorafenib N-oxide	EPHB2	EPHB2	19
Sorafenib N-oxide	EPHB3	EPHB3	100
Sorafenib N-oxide	EPHB4	EPHB4	16
Sorafenib N-oxide	EPHB6	EPHB6	1.8
Sorafenib N-oxide	ERBB2	ERBB2	100
Sorafenib N-oxide	ERBB3	ERBB3	62
Sorafenib N-oxide	ERBB4	ERBB4	100
Sorafenib N-oxide	ERK1	MAPK3	92
Sorafenib N-oxide	ERK2	MAPK1	100
Sorafenib N-oxide	ERK3	MAPK6	100
Sorafenib N-oxide	ERK4	MAPK4	78
Sorafenib N-oxide	ERK5	MAPK7	65
Sorafenib N-oxide	ERK8	MAPK15	0.6
Sorafenib N-oxide	ERN1	ERN1	66
Sorafenib N-oxide	FAK	PTK2	97
Sorafenib N-oxide	FER	FER	64
Sorafenib N-oxide	FES	FES	98
Sorafenib N-oxide	FGFR1	FGFR1	9.7
Sorafenib N-oxide	FGFR2	FGFR2	8.9
Sorafenib N-oxide	FGFR3	FGFR3	32
Sorafenib N-oxide	FGFR3(G697C)	FGFR3	50
Sorafenib N-oxide	FGFR4	FGFR4	39
Sorafenib N-oxide	FGR	FGR	28
Sorafenib N-oxide	FLT1	FLT1	0.65
Sorafenib N-oxide	FLT3	FLT3	0.1
Sorafenib N-oxide	FLT3(D835H)	FLT3	0.7
Sorafenib N-oxide	FLT3(D835Y)	FLT3	2.8
Sorafenib N-oxide	FLT3(ITD)	FLT3	0.4
Sorafenib N-oxide	FLT3(K663Q)	FLT3	0.2
Sorafenib N-oxide	FLT3(N841I)	FLT3	0
Sorafenib N-oxide	FLT3(R834Q)	FLT3	9
Sorafenib N-oxide	FLT4	FLT4	0
Sorafenib N-oxide	FRK	FRK	1.8
Sorafenib N-oxide	FYN	FYN	41
Sorafenib N-oxide	GAK	GAK	70
Sorafenib N-oxide	GCN2(Kin.Dom.2,S808G)	EIF2AK4	70
Sorafenib N-oxide	GRK1	GRK1	100
Sorafenib N-oxide	GRK4	GRK4	100
Sorafenib N-oxide	GRK7	GRK7	100
Sorafenib N-oxide	GSK3A	GSK3A	100
Sorafenib N-oxide	GSK3B	GSK3B	79
Sorafenib N-oxide	HCK	HCK	8.8
Sorafenib N-oxide	HIPK1	HIPK1	44

Sorafenib N-oxide	HIPK2	HIPK2	20
Sorafenib N-oxide	HIPK3	HIPK3	5.1
Sorafenib N-oxide	HIPK4	HIPK4	2.3
Sorafenib N-oxide	HPK1	MAP4K1	6
Sorafenib N-oxide	HUNK	HUNK	74
Sorafenib N-oxide	ICK	ICK	100
Sorafenib N-oxide	IGF1R	IGF1R	97
Sorafenib N-oxide	IKK-alpha	CHUK	6.5
Sorafenib N-oxide	IKK-beta	IKBKB	61
Sorafenib N-oxide	IKK-epsilon	IKBKE	100
Sorafenib N-oxide	INSR	INSR	83
Sorafenib N-oxide	INSRR	INSRR	86
Sorafenib N-oxide	IRAK1	IRAK1	22
Sorafenib N-oxide	IRAK3	IRAK3	91
Sorafenib N-oxide	IRAK4	IRAK4	100
Sorafenib N-oxide	ITK	ITK	100
Sorafenib N-oxide	JAK1(JH1domain-catalytic)	JAK1	50
Sorafenib N-oxide	JAK1(JH2domain-pseudokinase)	JAK1	96
Sorafenib N-oxide	JAK2(JH1domain-catalytic)	JAK2	68
Sorafenib N-oxide	JAK3(JH1domain-catalytic)	JAK3	78
Sorafenib N-oxide	JNK1	MAPK8	13
Sorafenib N-oxide	JNK2	MAPK9	0.05
Sorafenib N-oxide	JNK3	MAPK10	4.4
Sorafenib N-oxide	KIT	KIT	0
Sorafenib N-oxide	KIT(A829P)	KIT	26
Sorafenib N-oxide	KIT(D816H)	KIT	17
Sorafenib N-oxide	KIT(D816V)	KIT	2.6
Sorafenib N-oxide	KIT(L576P)	KIT	0
Sorafenib N-oxide	KIT(V559D)	KIT	0
Sorafenib N-oxide	KIT(V559D,T670I)	KIT	0
Sorafenib N-oxide	KIT(V559D,V654A)	KIT	0.45
Sorafenib N-oxide	LATS1	LATS1	53
Sorafenib N-oxide	LATS2	LATS2	100
Sorafenib N-oxide	LCK	LCK	2.5
Sorafenib N-oxide	LIMK1	LIMK1	8.5
Sorafenib N-oxide	LIMK2	LIMK2	59
Sorafenib N-oxide	LKB1	STK11	100
Sorafenib N-oxide	LOK	STK10	0
Sorafenib N-oxide	LRRK2	LRRK2	80
Sorafenib N-oxide	LRRK2(G2019S)	LRRK2	64
Sorafenib N-oxide	LTK	LTK	73
Sorafenib N-oxide	LYN	LYN	11
Sorafenib N-oxide	LZK	MAP3K13	68
Sorafenib N-oxide	MAK	MAK	35
Sorafenib N-oxide	MAP3K1	MAP3K1	100
Sorafenib N-oxide	MAP3K15	MAP3K15	80
Sorafenib N-oxide	MAP3K2	MAP3K2	100
Sorafenib N-oxide	MAP3K3	MAP3K3	96
Sorafenib N-oxide	MAP3K4	MAP3K4	93
Sorafenib N-oxide	MAP4K2	MAP4K2	66
Sorafenib N-oxide	MAP4K3	MAP4K3	12
Sorafenib N-oxide	MAP4K4	MAP4K4	0.5

Sorafenib N-oxide	MAP4K5	MAP4K5	0.45
Sorafenib N-oxide	MAPKAPK2	MAPKAPK2	100
Sorafenib N-oxide	MAPKAPK5	MAPKAPK5	100
Sorafenib N-oxide	MARK1	MARK1	100
Sorafenib N-oxide	MARK2	MARK2	87
Sorafenib N-oxide	MARK3	MARK3	86
Sorafenib N-oxide	MARK4	MARK4	100
Sorafenib N-oxide	MAST1	MAST1	100
Sorafenib N-oxide	MEK1	MAP2K1	80
Sorafenib N-oxide	MEK2	MAP2K2	84
Sorafenib N-oxide	MEK3	MAP2K3	71
Sorafenib N-oxide	MEK4	MAP2K4	60
Sorafenib N-oxide	MEK5	MAP2K5	0.1
Sorafenib N-oxide	MEK6	MAP2K6	55
Sorafenib N-oxide	MELK	MELK	65
Sorafenib N-oxide	MERTK	MERTK	2
Sorafenib N-oxide	MET	MET	16
Sorafenib N-oxide	MET(M1250T)	MET	16
Sorafenib N-oxide	MET(Y1235D)	MET	11
Sorafenib N-oxide	MINK	MINK1	2.4
Sorafenib N-oxide	MKK7	MAP2K7	63
Sorafenib N-oxide	MKNK1	MKNK1	1
Sorafenib N-oxide	MKNK2	MKNK2	0.05
Sorafenib N-oxide	MLCK	MYLK3	2.8
Sorafenib N-oxide	MLK1	MAP3K9	100
Sorafenib N-oxide	MLK2	MAP3K10	88
Sorafenib N-oxide	MLK3	MAP3K11	89
Sorafenib N-oxide	MRCKA	CDC42BPA	90
Sorafenib N-oxide	MRCKB	CDC42BPB	97
Sorafenib N-oxide	MST1	STK4	42
Sorafenib N-oxide	MST1R	MST1R	30
Sorafenib N-oxide	MST2	STK3	100
Sorafenib N-oxide	MST3	STK24	14
Sorafenib N-oxide	MST4	MST4	49
Sorafenib N-oxide	MTOR	FRAP1	100
Sorafenib N-oxide	MUSK	MUSK	0.2
Sorafenib N-oxide	MYLK	MYLK	100
Sorafenib N-oxide	MYLK2	MYLK2	8.7
Sorafenib N-oxide	MYLK4	MYLK4	100
Sorafenib N-oxide	MYO3A	MYO3A	14
Sorafenib N-oxide	MYO3B	MYO3B	17
Sorafenib N-oxide	NDR1	STK38	100
Sorafenib N-oxide	NDR2	STK38L	100
Sorafenib N-oxide	NEK1	NEK1	84
Sorafenib N-oxide	NEK11	NEK11	100
Sorafenib N-oxide	NEK2	NEK2	71
Sorafenib N-oxide	NEK3	NEK3	100
Sorafenib N-oxide	NEK4	NEK4	93
Sorafenib N-oxide	NEK5	NEK5	100
Sorafenib N-oxide	NEK6	NEK6	100
Sorafenib N-oxide	NEK7	NEK7	100
Sorafenib N-oxide	NEK9	NEK9	35

Sorafenib N-oxide	NIM1	MGC42105	100
Sorafenib N-oxide	NLK	NLK	11
Sorafenib N-oxide	OSR1	OXSRI	100
Sorafenib N-oxide	p38-alpha	MAPK14	0
Sorafenib N-oxide	p38-beta	MAPK11	0
Sorafenib N-oxide	p38-delta	MAPK13	0.55
Sorafenib N-oxide	p38-gamma	MAPK12	0.1
Sorafenib N-oxide	PAK1	PAK1	100
Sorafenib N-oxide	PAK2	PAK2	93
Sorafenib N-oxide	PAK3	PAK3	43
Sorafenib N-oxide	PAK4	PAK4	100
Sorafenib N-oxide	PAK6	PAK6	82
Sorafenib N-oxide	PAK7	PAK7	82
Sorafenib N-oxide	PCKT1	PCKT1	19
Sorafenib N-oxide	PCKT2	PCKT2	7.7
Sorafenib N-oxide	PCKT3	PCKT3	26
Sorafenib N-oxide	PDGFRA	PDGFRA	0
Sorafenib N-oxide	PDGFRB	PDGFRB	0
Sorafenib N-oxide	PDPK1	PDPK1	94
Sorafenib N-oxide	PFCDPK1(P.falciparum)	PFB0815w	0.15
Sorafenib N-oxide	PFPK5(P.falciparum)	MAL13P1.279	100
Sorafenib N-oxide	PFTAIRE2	PFTK2	9.6
Sorafenib N-oxide	PFTK1	PFTK1	3.8
Sorafenib N-oxide	PHKG1	PHKG1	77
Sorafenib N-oxide	PHKG2	PHKG2	100
Sorafenib N-oxide	PIK3C2B	PIK3C2B	100
Sorafenib N-oxide	PIK3C2G	PIK3C2G	100
Sorafenib N-oxide	PIK3CA	PIK3CA	95
Sorafenib N-oxide	PIK3CA(C420R)	PIK3CA	40
Sorafenib N-oxide	PIK3CA(E542K)	PIK3CA	100
Sorafenib N-oxide	PIK3CA(E545A)	PIK3CA	100
Sorafenib N-oxide	PIK3CA(E545K)	PIK3CA	100
Sorafenib N-oxide	PIK3CA(H1047L)	PIK3CA	98
Sorafenib N-oxide	PIK3CA(H1047Y)	PIK3CA	100
Sorafenib N-oxide	PIK3CA(I800L)	PIK3CA	100
Sorafenib N-oxide	PIK3CA(M1043I)	PIK3CA	83
Sorafenib N-oxide	PIK3CA(Q546K)	PIK3CA	100
Sorafenib N-oxide	PIK3CB	PIK3CB	93
Sorafenib N-oxide	PIK3CD	PIK3CD	100
Sorafenib N-oxide	PIK3CG	PIK3CG	82
Sorafenib N-oxide	PIK4CB	PI4KB	100
Sorafenib N-oxide	PIM1	PIM1	100
Sorafenib N-oxide	PIM2	PIM2	100
Sorafenib N-oxide	PIM3	PIM3	100
Sorafenib N-oxide	PIP5K1A	PIP5K1A	100
Sorafenib N-oxide	PIP5K1C	PIP5K1C	66
Sorafenib N-oxide	PIP5K2B	PIP4K2B	88
Sorafenib N-oxide	PIP5K2C	PIP4K2C	16
Sorafenib N-oxide	PKAC-alpha	PRKACA	100
Sorafenib N-oxide	PKAC-beta	PRKACB	98
Sorafenib N-oxide	PKMYT1	PKMYT1	100
Sorafenib N-oxide	PKN1	PKN1	97

Sorafenib N-oxide	PKN2	PKN2	91
Sorafenib N-oxide	PKNB(M.tuberculosis)	pknB	100
Sorafenib N-oxide	PLK1	PLK1	100
Sorafenib N-oxide	PLK2	PLK2	77
Sorafenib N-oxide	PLK3	PLK3	100
Sorafenib N-oxide	PLK4	PLK4	5.2
Sorafenib N-oxide	PRKCD	PRKCD	100
Sorafenib N-oxide	PRKCE	PRKCE	100
Sorafenib N-oxide	PRKCH	PRKCH	84
Sorafenib N-oxide	PRKCI	PRKCI	100
Sorafenib N-oxide	PRKCQ	PRKCQ	80
Sorafenib N-oxide	PRKD1	PRKD1	63
Sorafenib N-oxide	PRKD2	PRKD2	83
Sorafenib N-oxide	PRKD3	PRKD3	83
Sorafenib N-oxide	PRKG1	PRKG1	98
Sorafenib N-oxide	PRKG2	PRKG2	100
Sorafenib N-oxide	PRKR	EIF2AK2	58
Sorafenib N-oxide	PRKX	PRKX	100
Sorafenib N-oxide	PRP4	PRPF4B	99
Sorafenib N-oxide	PYK2	PTK2B	91
Sorafenib N-oxide	QSK	KIAA0999	100
Sorafenib N-oxide	RAF1	RAF1	0.45
Sorafenib N-oxide	RET	RET	0
Sorafenib N-oxide	RET(M918T)	RET	0
Sorafenib N-oxide	RET(V804L)	RET	0
Sorafenib N-oxide	RET(V804M)	RET	0
Sorafenib N-oxide	RIOK1	RIOK1	100
Sorafenib N-oxide	RIOK2	RIOK2	42
Sorafenib N-oxide	RIOK3	RIOK3	73
Sorafenib N-oxide	RIPK1	RIPK1	87
Sorafenib N-oxide	RIPK2	RIPK2	9.8
Sorafenib N-oxide	RIPK4	RIPK4	100
Sorafenib N-oxide	RIPK5	DSTKY	68
Sorafenib N-oxide	ROCK1	ROCK1	23
Sorafenib N-oxide	ROCK2	ROCK2	82
Sorafenib N-oxide	ROS1	ROS1	73
Sorafenib N-oxide	RPS6KA4(Kin.Dom.1-N-terminal)	RPS6KA4	13
Sorafenib N-oxide	RPS6KA4(Kin.Dom.2-C-terminal)	RPS6KA4	98
Sorafenib N-oxide	RPS6KA5(Kin.Dom.1-N-terminal)	RPS6KA5	59
Sorafenib N-oxide	RPS6KA5(Kin.Dom.2-C-terminal)	RPS6KA5	81
Sorafenib N-oxide	RSK1(Kin.Dom.1-N-terminal)	RPS6KA1	91
Sorafenib N-oxide	RSK1(Kin.Dom.2-C-terminal)	RPS6KA1	58
Sorafenib N-oxide	RSK2(Kin.Dom.1-N-terminal)	RPS6KA3	52
Sorafenib N-oxide	RSK3(Kin.Dom.1-N-terminal)	RPS6KA2	43
Sorafenib N-oxide	RSK3(Kin.Dom.2-C-terminal)	RPS6KA2	42
Sorafenib N-oxide	RSK4(Kin.Dom.1-N-terminal)	RPS6KA6	97
Sorafenib N-oxide	RSK4(Kin.Dom.2-C-terminal)	RPS6KA6	6.4
Sorafenib N-oxide	S6K1	RPS6KB1	42
Sorafenib N-oxide	SBK1	SBK1	100
Sorafenib N-oxide	SgK110	SgK110	100
Sorafenib N-oxide	SGK3	SGK3	42
Sorafenib N-oxide	SIK	SIK1	66

Sorafenib N-oxide	SIK2	SIK2	66
Sorafenib N-oxide	SLK	SLK	9.4
Sorafenib N-oxide	SNARK	NUAK2	85
Sorafenib N-oxide	SNRK	SNRK	95
Sorafenib N-oxide	SRC	SRC	53
Sorafenib N-oxide	SRMS	SRMS	10
Sorafenib N-oxide	SRPK1	SRPK1	100
Sorafenib N-oxide	SRPK2	SRPK2	73
Sorafenib N-oxide	SRPK3	SRPK3	86
Sorafenib N-oxide	STK16	STK16	81
Sorafenib N-oxide	STK33	STK33	6.9
Sorafenib N-oxide	STK35	STK35	40
Sorafenib N-oxide	STK36	STK36	26
Sorafenib N-oxide	STK39	STK39	87
Sorafenib N-oxide	SYK	SYK	89
Sorafenib N-oxide	TAK1	MAP3K7	2.9
Sorafenib N-oxide	TAOK1	TAOK1	11
Sorafenib N-oxide	TAOK2	TAOK2	8
Sorafenib N-oxide	TAOK3	TAOK3	0.4
Sorafenib N-oxide	TBK1	TBK1	100
Sorafenib N-oxide	TEC	TEC	68
Sorafenib N-oxide	TESK1	TESK1	55
Sorafenib N-oxide	TGFBR1	TGFBR1	100
Sorafenib N-oxide	TGFBR2	TGFBR2	3.1
Sorafenib N-oxide	TIE1	TIE1	0.3
Sorafenib N-oxide	TIE2	TEK	3.5
Sorafenib N-oxide	TLK1	TLK1	60
Sorafenib N-oxide	TLK2	TLK2	100
Sorafenib N-oxide	TNIK	TNIK	3.9
Sorafenib N-oxide	TNK1	TNK1	6.6
Sorafenib N-oxide	TNK2	TNK2	100
Sorafenib N-oxide	TNNI3K	TNNI3K	2.4
Sorafenib N-oxide	TRKA	NTRK1	4
Sorafenib N-oxide	TRKB	NTRK2	2.4
Sorafenib N-oxide	TRKC	NTRK3	0.35
Sorafenib N-oxide	TRPM6	TRPM6	100
Sorafenib N-oxide	TSSK1B	TSSK1B	100
Sorafenib N-oxide	TTK	TTK	9
Sorafenib N-oxide	TXK	TXK	78
Sorafenib N-oxide	TYK2(JH1domain-catalytic)	TYK2	100
Sorafenib N-oxide	TYK2(JH2domain-pseudokinase)	TYK2	99
Sorafenib N-oxide	TYRO3	TYRO3	100
Sorafenib N-oxide	ULK1	ULK1	99
Sorafenib N-oxide	ULK2	ULK2	75
Sorafenib N-oxide	ULK3	ULK3	82
Sorafenib N-oxide	VEGFR2	KDR	0.4
Sorafenib N-oxide	VRK2	VRK2	100
Sorafenib N-oxide	WEE1	WEE1	100
Sorafenib N-oxide	WEE2	WEE2	94
Sorafenib N-oxide	YANK1	STK32A	92
Sorafenib N-oxide	YANK2	STK32B	100
Sorafenib N-oxide	YANK3	STK32C	87

Sorafenib N-oxide	YES	YES1	68
Sorafenib N-oxide	YSK1	STK25	32
Sorafenib N-oxide	YSK4	YSK4	0.1
Sorafenib N-oxide	ZAK	ZAK	0.85
Sorafenib N-oxide	ZAP70	ZAP70	77