

Kinase	Technology	% Inhibition Avg	Kinase	Technology	% Inhibition Avg
AAK1	LanthaScreen	87	CDK1/cyclin B	ZLYTE	88
ABL1	ZLYTE	100	CDK11 (Inactive)	LanthaScreen	29
ABL1 E255K	ZLYTE	99	CDK11/cyclin C	LanthaScreen	53
ABL1 F317I	ZLYTE	94	CDK13/cyclin K	LanthaScreen	70
ABL1 F317L	ZLYTE	98	CDK14 (PFTK1)/cyclin Y	LanthaScreen	66
ABL1 G250E	ZLYTE	100	CDK16 (PCTK1)/cyclin Y	LanthaScreen	81
ABL1 H396P	LanthaScreen	78	CDK17/cyclin Y	ZLYTE	97
ABL1 M351T	LanthaScreen	52	CDK18/cyclin Y	ZLYTE	88
ABL1 Q252H	LanthaScreen	85	CDK2/cyclin A	ZLYTE	95
ABL1 T315I	ZLYTE	101	CDK2/cyclin A1	LanthaScreen	50
ABL1 Y253F	ZLYTE	100	CDK2/cyclin E1	LanthaScreen	36
ABL2 (Arg)	ZLYTE	98	CDK2/cyclin O	LanthaScreen	-32
ACVR1 (ALK2)	LanthaScreen	94	CDK3/cyclin E1	LanthaScreen	48
ACVR1 (ALK2) R206H	LanthaScreen	69	CDK4/cyclin D1	Adapta	85
ACVR1B (ALK4)	ZLYTE	39	CDK4/cyclin D3	Adapta	83
ACVR2A	LanthaScreen	86	CDK5 (Inactive)	LanthaScreen	8
ACVR2B	LanthaScreen	94	CDK5/p25	ZLYTE	97
ACVRL1 (ALK1)	LanthaScreen	86	CDK5/p35	ZLYTE	94
ADCK3	LanthaScreen	-2	CDK6/cyclin D1	Adapta	82
ADRBK1 (GRK2)	ZLYTE	38	CDK7/cyclin H/MNAT1	Adapta	98
ADRBK2 (GRK3)	ZLYTE	31	CDK8/cyclin C	LanthaScreen	38
AKT1 (PKB alpha)	ZLYTE	24	CDK9 (Inactive)	LanthaScreen	2
AKT2 (PKB beta)	ZLYTE	29	CDK9/cyclin K	LanthaScreen	38
AKT3 (PKB gamma)	ZLYTE	11	CDK9/cyclin T1	Adapta	82
ALK	ZLYTE	101	CDKL5	ZLYTE	56
ALK C1156Y	LanthaScreen	76	CHEK1 (CHK1)	ZLYTE	99
ALK F1174L	LanthaScreen	56	CHEK2 (CHK2)	ZLYTE	100
ALK L1196M	LanthaScreen	13	CHUK (IKK alpha)	Adapta	96
ALK R1275Q	LanthaScreen	52	CLK1	ZLYTE	99
ALK T1151_L1152insT	LanthaScreen	26	CLK2	ZLYTE	97
AMPK (A1/B1/G2)	LanthaScreen	85	CLK3	ZLYTE	66
AMPK (A1/B1/G3)	LanthaScreen	71	CLK4	LanthaScreen	84
AMPK (A1/B2/G1)	LanthaScreen	77	CSF1R (FMS)	ZLYTE	99
AMPK (A1/B2/G2)	ZLYTE	99	CSK	ZLYTE	71
AMPK (A1/B2/G3)	ZLYTE	99	CSNK1A1 (CK1 alpha 1)	ZLYTE	33
AMPK (A2/B1/G2)	ZLYTE	97	CSNK1A1L	ZLYTE	20
AMPK (A2/B1/G3)	ZLYTE	96	CSNK1D (CK1 delta)	ZLYTE	53
AMPK (A2/B2/G1)	LanthaScreen	75	CSNK1E (CK1 epsilon)	ZLYTE	67
AMPK (A2/B2/G2)	LanthaScreen	78	CSNK1E (CK1 epsilon) R178C	ZLYTE	71
AMPK (A2/B2/G3)	ZLYTE	98	CSNK1G1 (CK1 gamma 1)	ZLYTE	74
AMPK A1/B1/G1	ZLYTE	97	CSNK1G2 (CK1 gamma 2)	ZLYTE	87
AMPK A2/B1/G1	ZLYTE	99	CSNK1G3 (CK1 gamma 3)	ZLYTE	77
AURKA (Aurora A)	ZLYTE	98	CSNK2A1 (CK2 alpha 1)	ZLYTE	18
AURKB (Aurora B)	ZLYTE	102	CSNK2A2 (CK2 alpha 2)	ZLYTE	38
AURKC (Aurora C)	ZLYTE	98	DAPK1	Adapta	90
AXL	ZLYTE	95	DAPK2	LanthaScreen	64
AXL R499C	LanthaScreen	45	DAPK3 (ZIPK)	ZLYTE	67
BLK	ZLYTE	89	DCAMKL1 (DCLK1)	ZLYTE	57
BMPR1A (ALK3)	LanthaScreen	98	DCAMKL2 (DCK2)	ZLYTE	56
BMPR1B (ALK6)	LanthaScreen	90	DDR1	LanthaScreen	55
BMPR2	LanthaScreen	113	DDR2	LanthaScreen	53
BMX	ZLYTE	88	DDR2 N456S	LanthaScreen	-96
BRAF	LanthaScreen	-1	DDR2 T654M	LanthaScreen	84
BRAF	ZLYTE	67	DMPK	LanthaScreen	77
BRAF V599E	LanthaScreen	6	DNA-PK	ZLYTE	24
BRAF V599E	ZLYTE	60	DYRK1A	ZLYTE	90
BRSK1 (SAD1)	ZLYTE	99	DYRK1B	ZLYTE	91
BRSK2	LanthaScreen	7	DYRK2	LanthaScreen	47
BTK	ZLYTE	99	DYRK3	ZLYTE	86
CAMK1 (CaMK1)	Adapta	89	DYRK4	ZLYTE	16
CAMK1D (CaMKI delta)	ZLYTE	80	EEF2K	ZLYTE	-1
CAMK1G (CaMKI gamma)	ZLYTE	71	EGFR (ErbB1)	ZLYTE	49
CAMK2A (CaMKII alpha)	ZLYTE	67	EGFR (ErbB1) C797S	ZLYTE	51
CAMK2B (CaMKII beta)	ZLYTE	32	EGFR (ErbB1) d746-750	LanthaScreen	-17
CAMK2D (CaMKII delta)	ZLYTE	96	EGFR (ErbB1) d747-749 A750P	LanthaScreen	30
CAMK2G (CaMKII gamma)	LanthaScreen	-110	EGFR (ErbB1) G719C	ZLYTE	43
CAMK4 (CaMKIV)	ZLYTE	52	EGFR (ErbB1) G719S	ZLYTE	68
CAMKK1 (CAMKKA)	LanthaScreen	69	EGFR (ErbB1) L858R	ZLYTE	48
CAMKK2 (CaMKK beta)	LanthaScreen	86	EGFR (ErbB1) L861Q	ZLYTE	52
CASK	LanthaScreen	-63	EGFR (ErbB1) T790M	ZLYTE	96
CDC42 BPA (MRCKA)	ZLYTE	32	EGFR (ErbB1) T790M C797S L858R	ZLYTE	96
CDC42 BPB (MRCKB)	ZLYTE	27	EGFR (ErbB1) T790M L858R	ZLYTE	97
CDC42 BPG (MRCKG)	ZLYTE	68	EIF2AK2 (PKR)	LanthaScreen	7
CDC7/DBF4	LanthaScreen	16	EPHA1	ZLYTE	99
			EPHA2	ZLYTE	98

Kinase	Technology	% Inhibition Avg	Kinase	Technology	% Inhibition Avg
EPHA3	LanthaScreen	61	KIT V559D	ZLYTE	91
EPHA4	ZLYTE	83	KIT V559D T670I	LanthaScreen	67
EPHA5	ZLYTE	84	KIT V559D V654A	ZLYTE	77
EPHA6	LanthaScreen	73	KIT V560G	ZLYTE	84
EPHA7	LanthaScreen	66	KIT V654A	LanthaScreen	68
EPHA8	ZLYTE	79	KIT Y823D	LanthaScreen	61
EPHB1	ZLYTE	97	KSR2	ZLYTE	5
EPHB2	ZLYTE	95	LATS1	LanthaScreen	-17
EPHB3	ZLYTE	21	LATS2	LanthaScreen	68
EPHB4	ZLYTE	87	LCK	ZLYTE	97
ERBB2 (HER2)	ZLYTE	4	LIMK1	LanthaScreen	32
ERBB4 (HER4)	ZLYTE	55	LIMK2	LanthaScreen	24
ERN1	LanthaScreen	32	LRRK2	Adapta	100
ERN2	LanthaScreen	74	LRRK2 FL	Adapta	100
FER	ZLYTE	98	LRRK2 G2019S	Adapta	100
FES (FPS)	ZLYTE	98	LRRK2 G2019S FL	Adapta	100
FGFR1	ZLYTE	96	LRRK2 I2020T	Adapta	100
FGFR1 V561M	LanthaScreen	30	LRRK2 R1441C	Adapta	100
FGFR2	ZLYTE	97	LTK (TYK1)	ZLYTE	90
FGFR2 N549H	ZLYTE	94	LYN A	ZLYTE	89
FGFR3	ZLYTE	97	LYN B	ZLYTE	94
FGFR3 G697C	LanthaScreen	78	MAP2K1 (MEK1)	LanthaScreen	54
FGFR3 K650E	ZLYTE	97	MAP2K1 (MEK1)	ZLYTE	72
FGFR3 K650M	LanthaScreen	22	MAP2K1 (MEK1) S218D S222D	LanthaScreen	66
FGFR3 V555M	ZLYTE	100	MAP2K2 (MEK2)	LanthaScreen	73
FGFR4	ZLYTE	70	MAP2K2 (MEK2)	ZLYTE	75
FGR	ZLYTE	99	MAP2K4 (MEK4)	LanthaScreen	79
FLT1 (VEGFR1)	ZLYTE	87	MAP2K5 (MEK5)	LanthaScreen	84
FLT3	ZLYTE	100	MAP2K6 (MKK6)	LanthaScreen	56
FLT3 D835Y	ZLYTE	100	MAP2K6 (MKK6)	ZLYTE	79
FLT3 ITD	LanthaScreen	5	MAP2K6 (MKK6) S207E T211E	LanthaScreen	82
FLT4 (VEGFR3)	ZLYTE	95	MAP3K10 (MLK2)	LanthaScreen	87
FRAP1 (mTOR)	ZLYTE	9	MAP3K11 (MLK3)	LanthaScreen	86
FRK (PTK5)	ZLYTE	90	MAP3K14 (NIK)	LanthaScreen	90
FYN	ZLYTE	94	MAP3K19 (YSK4)	ZLYTE	98
FYN A	LanthaScreen	72	MAP3K2 (MEKK2)	LanthaScreen	86
GAK	LanthaScreen	67	MAP3K3 (MEKK3)	LanthaScreen	82
GRK1	LanthaScreen	25	MAP3K5 (ASK1)	LanthaScreen	63
GRK4	ZLYTE	61	MAP3K7/MAP3K7IP1 (TAK1-TAB1)	LanthaScreen	26
GRK5	ZLYTE	17	MAP3K8 (COT)	ZLYTE	54
GRK6	ZLYTE	62	MAP3K9 (MLK1)	ZLYTE	102
GRK7	ZLYTE	41	MAP4K1 (HPK1)	LanthaScreen	76
GSG2 (Haspin)	Adapta	74	MAP4K2 (GCK)	ZLYTE	101
GSK3A (GSK3 alpha)	ZLYTE	63	MAP4K3 (GLK)	LanthaScreen	72
GSK3B (GSK3 beta)	ZLYTE	66	MAP4K4 (HGK)	ZLYTE	98
HCK	ZLYTE	90	MAP4K5 (KHS1)	ZLYTE	102
HIPK1 (Myak)	ZLYTE	70	MAPK1 (ERK2)	ZLYTE	45
HIPK2	ZLYTE	92	MAPK10 (JNK3)	LanthaScreen	88
HIPK3 (YAK1)	ZLYTE	53	MAPK10 (JNK3)	ZLYTE	59
HIPK4	ZLYTE	85	MAPK11 (p38 beta)	ZLYTE	90
HUNK	LanthaScreen	84	MAPK12 (p38 gamma)	ZLYTE	23
ICK	LanthaScreen	74	MAPK13 (p38 delta)	ZLYTE	30
IGF1R	ZLYTE	95	MAPK14 (p38 alpha)	ZLYTE	33
IKBKB (IKK beta)	ZLYTE	66	MAPK14 (p38 alpha) Direct	ZLYTE	44
IKBKE (IKK epsilon)	ZLYTE	92	MAPK15 (ERK7)	LanthaScreen	-49
INSR	ZLYTE	96	MAPK3 (ERK1)	ZLYTE	41
INSRR (IRR)	ZLYTE	96	MAPK7 (ERK5)	ZLYTE	6
IRAK1	Adapta	99	MAPK8 (JNK1)	LanthaScreen	81
IRAK3	LanthaScreen	31	MAPK8 (JNK1)	ZLYTE	96
IRAK4	ZLYTE	77	MAPK9 (JNK2)	LanthaScreen	79
ITK	ZLYTE	99	MAPK9 (JNK2)	ZLYTE	87
JAK1	ZLYTE	94	MAPKAPK2	ZLYTE	28
JAK2	ZLYTE	98	MAPKAPK3	ZLYTE	4
JAK2 JH1 JH2	ZLYTE	96	MAPKAPK5 (PRAK)	ZLYTE	87
JAK2 JH1 JH2 V617F	ZLYTE	94	MARK1 (MARK)	ZLYTE	99
JAK3	ZLYTE	98	MARK2	ZLYTE	98
KDR (VEGFR2)	ZLYTE	99	MARK3	ZLYTE	99
KIT	ZLYTE	91	MARK4	ZLYTE	101
KIT A829P	LanthaScreen	67	MASTL	LanthaScreen	83
KIT D816H	LanthaScreen	42	MATK (HYL)	ZLYTE	37
KIT D816V	LanthaScreen	40	MELK	ZLYTE	101
KIT D820E	LanthaScreen	81	MERTK (cMER)	ZLYTE	93
KIT N822K	LanthaScreen	68	MERTK (cMER) A708S	LanthaScreen	74
KIT T670E	LanthaScreen	89	MET (cMet)	ZLYTE	95

Kinase	Technology	% Inhibition Avg	Kinase	Technology	% Inhibition Avg
MET (cMet) Y1235D	ZLYTE	88	PIP5K1B	Adapta	32
MET D1228H	LanthaScreen	75	PIP5K1C	Adapta	7
MET M1250T	ZLYTE	96	PKMYT1	LanthaScreen	-61
MINK1	ZLYTE	102	PKN1 (PRK1)	ZLYTE	72
MKKN1 (MNK1)	ZLYTE	52	PKN2 (PRK2)	LanthaScreen	65
MKKN2 (MNK2)	LanthaScreen	68	PLK1	ZLYTE	16
MLCK (MLCK2)	LanthaScreen	77	PLK2	ZLYTE	35
MLK4	LanthaScreen	17	PLK3	ZLYTE	-10
MST1R (RON)	ZLYTE	97	PLK4	LanthaScreen	61
MST4	ZLYTE	92	PRKACA (PKA)	ZLYTE	76
MUSK	ZLYTE	90	PRKACB (PRKAC beta)	LanthaScreen	48
MYLK (MLCK)	LanthaScreen	80	PRKACG (PRKAC gamma)	LanthaScreen	18
MYLK2 (skMLCK)	ZLYTE	100	PRKCA (PKC alpha)	ZLYTE	61
MYLK4	LanthaScreen	71	PRKCB1 (PKC beta I)	ZLYTE	19
MYO3A (MYO3 alpha)	LanthaScreen	59	PRKCB2 (PKC beta II)	ZLYTE	71
MYO3B (MYO3 beta)	LanthaScreen	88	PRKCD (PKC delta)	ZLYTE	25
NEK1	ZLYTE	67	PRKCE (PKC epsilon)	ZLYTE	10
NEK2	ZLYTE	47	PRKCG (PKC gamma)	ZLYTE	81
NEK4	ZLYTE	96	PRKCH (PKC eta)	ZLYTE	-2
NEK6	ZLYTE	10	PRKCI (PKC iota)	ZLYTE	7
NEK7	ZLYTE	7	PRKCN (PKD3)	ZLYTE	95
NEK8	LanthaScreen	30	PRKCCQ (PKC theta)	ZLYTE	32
NEK9	ZLYTE	70	PRK CZ (PKC zeta)	ZLYTE	9
NIM1K	ZLYTE	79	PRKD1 (PKC mu)	ZLYTE	97
NLK	LanthaScreen	-2	PRKD2 (PKD2)	ZLYTE	100
NTRK1 (TRKA)	ZLYTE	98	PRKG1	ZLYTE	77
NTRK2 (TRKB)	ZLYTE	99	PRKG2 (PKG2)	ZLYTE	73
NTRK3 (TRKC)	ZLYTE	100	PRKX	ZLYTE	96
NUAK1 (ARK5)	Adapta	100	PTK2 (FAK)	ZLYTE	95
NUAK2	LanthaScreen	62	PTK2B (FAK2)	ZLYTE	96
PAK1	ZLYTE	72	PTK6 (Brk)	ZLYTE	71
PAK2 (PAK65)	ZLYTE	57	RAF1 (cRAF) Y340D Y341D	LanthaScreen	0
PAK3	ZLYTE	52	RAF1 (cRAF) Y340D Y341D	ZLYTE	74
PAK4	ZLYTE	94	RET	ZLYTE	101
PAK6	ZLYTE	60	RET A883F	ZLYTE	99
PAK7 (KIAA1264)	ZLYTE	98	RET G691S	LanthaScreen	-30
PASK	ZLYTE	10	RET M918T	LanthaScreen	-40
PDGFRA (PDGFR alpha)	ZLYTE	91	RET S891A	ZLYTE	97
PDGFRA D842V	ZLYTE	98	RET V804E	ZLYTE	94
PDGFRA T674I	ZLYTE	97	RET V804L	ZLYTE	100
PDGFRA V561D	ZLYTE	97	RET V804M	LanthaScreen	-5
PDGFRB (PDGFR beta)	ZLYTE	76	RET Y791F	ZLYTE	100
PDK1	ZLYTE	77	RIPK2	LanthaScreen	77
PDK1 Direct	ZLYTE	103	RIPK3	LanthaScreen	18
PEAK1	ZLYTE	91	ROCK1	ZLYTE	87
PHKG1	ZLYTE	100	ROCK2	ZLYTE	83
PHKG2	ZLYTE	99	ROS1	ZLYTE	98
PI4K2A (PI4K2 alpha)	Adapta	4	RPS6KA1 (RSK1)	ZLYTE	94
PI4K2B (PI4K2 beta)	Adapta	-1	RPS6KA2 (RSK3)	ZLYTE	96
PI4KA (PI4K alpha)	Adapta	7	RPS6KA3 (RSK2)	ZLYTE	95
PI4KB (PI4K beta)	Adapta	10	RPS6KA4 (MSK2)	ZLYTE	75
PIK3C2A (PI3K-C2 alpha)	Adapta	4	RPS6KA5 (MSK1)	ZLYTE	49
PIK3C2B (PI3K-C2 beta)	Adapta	9	RPS6KA6 (RSK4)	ZLYTE	97
PIK3C2G (PI3K-C2 gamma)	Adapta	2	RPS6KB1 (p70S6K)	ZLYTE	96
PIK3C3 (hVPS34)	Adapta	-3	RPS6KB2 (p70S6Kb)	ZLYTE	37
PIK3CA E542K/PIK3R1 (p110 alpha E542K/p85 alpha)	Adapta	13	SBK1	ZLYTE	81
PIK3CA E545K/PIK3R1 (p110 alpha E545K/p85 alpha)	Adapta	-3	SGK (SGK1)	ZLYTE	98
PIK3CA/PIK3R1 (p110 alpha/p85 alpha)	Adapta	11	SGK2	ZLYTE	95
PIK3CA/PIK3R3 (p110 alpha/p55 gamma)	Adapta	4	SGKL (SGK3)	ZLYTE	52
PIK3CB/PIK3R1 (p110 beta/p85 alpha)	Adapta	-5	SIK1	LanthaScreen	82
PIK3CB/PIK3R2 (p110 beta/p85 beta)	Adapta	-10	SIK3	LanthaScreen	-1
PIK3CD/PIK3R1 (p110 delta/p85 alpha)	Adapta	20	SLK	LanthaScreen	88
PIK3CG (p110 gamma)	Adapta	8	SNF1LK2	ZLYTE	97
PIM1	ZLYTE	42	SPHK1	Adapta	17
PIM2	ZLYTE	8	SPHK2	Adapta	7
PIM3	ZLYTE	2	SRC	ZLYTE	89
PIP4K2A	Adapta	1	SRC N1	ZLYTE	96
PIP5K1A	Adapta	16	SRMS (Srm)	ZLYTE	63
			SRPK1	ZLYTE	31
			SRPK2	ZLYTE	32
			STK16 (PKL12)	LanthaScreen	83
			STK17A (DRAK1)	LanthaScreen	85
			STK17B (DRAK2)	LanthaScreen	58
			STK22B (TSSK2)	ZLYTE	74
			STK22D (TSSK1)	ZLYTE	99

Kinase	Technology	% Inhibition Avg	Kinase	Technology	% Inhibition Avg
STK23 (MSSK1)	ZLYTE	59	TGFBR1 (ALK5)	LanthaScreen	85
STK24 (MST3)	ZLYTE	85	TGFBR2	LanthaScreen	77
STK25 (YSK1)	ZLYTE	45	TLK1	LanthaScreen	4
STK3 (MST2)	ZLYTE	77	TLK2	LanthaScreen	33
STK32B (YANK2)	LanthaScreen	61	TNIK	LanthaScreen	15
STK32C (YANK3)	LanthaScreen	62	TNK1	ZLYTE	94
STK33	LanthaScreen	81	TNK2 (ACK)	LanthaScreen	71
STK38 (NDR)	LanthaScreen	85	TTK	LanthaScreen	54
STK38L (NDR2)	LanthaScreen	59	TXK	ZLYTE	94
STK39 (STLK3)	LanthaScreen	38	TYK2	ZLYTE	99
STK4 (MST1)	ZLYTE	93	TYRO3 (RSE)	ZLYTE	92
SYK	ZLYTE	98	ULK1	LanthaScreen	80
TAOK1	LanthaScreen	82	ULK2	LanthaScreen	56
TAOK2 (TAO1)	ZLYTE	87	ULK3	LanthaScreen	5
TAOK3 (JIK)	LanthaScreen	25	VRK2	LanthaScreen	32
TBK1	ZLYTE	99	WEE1	LanthaScreen	75
TEC	LanthaScreen	-9	WNK1	LanthaScreen	2
TEK (Tie2)	ZLYTE	99	WNK2	LanthaScreen	1
TEK (TIE2) R849W	LanthaScreen	-5	WNK3	LanthaScreen	7
TEK (TIE2) Y1108F	LanthaScreen	72	YES1	ZLYTE	95
TEK (TIE2) Y897S	ZLYTE	80	ZAK	LanthaScreen	77
TESK1	LanthaScreen	37	ZAP70	ZLYTE	24

***Technology:**

ZLYTE® - Biochemical assay - based on differential sensitivity of phosphorylated and non-phosphorylated peptides to proteolytic cleavage (Thermo Fisher Scientific, USA)

Adapta® - Universal Kinase Assay - fluorescence-based immunoassay for the detection of ADP (Thermo Fisher Scientific, USA)

LanthaScreen® Binding - EU kinase binding assay (Thermo Fisher Scientific, USA)