

List of kinases for which binding kinetic services are available

Kinase target	Official symbol	Kinase group	Description
ABL1	ABL1	TK	abelson tyrosine kinase
ABL1 E255K	ABL1	TK	abelson tyrosine kinase
ABL1 G250E	ABL1	TK	abelson tyrosine kinase
ABL1 Y253F	ABL1	TK	abelson tyrosine kinase
ABL2	ABL2	TK	abelson tyrosine kinase 2
ACVR1	ACVR1	TKL	activin A receptor, type I
ACVR2A	ACVR2A	TKL	activin A receptor, type IIA
ACVR2B	ACVR2B	TKL	activin A receptor, type IIB
AMPKa1	PRKAA1	CAMK	protein kinase, AMP-activated, alpha 1 catalytic subunit
AMPKa2	PRKAA2	CAMK	protein kinase, AMP-activated, alpha 2 catalytic subunit
AURKA	AURKA	Other	aurora kinase A
AURKB	AURKB	Other	aurora kinase B
AXL	AXL	TK	AXL receptor tyrosine kinase
BLK	BLK	TK	B lymphoid tyrosine kinase
BMPR1A	BMPR1A	TKL	bone morphogenetic protein receptor, type IA
BMX	BMX	TK	BMX non-receptor tyrosine kinase
BRAF	BRAF	TKL	v-raf murine sarcoma viral oncogene homolog B1
BRAF V599E	BRAF	TKL	v-raf murine sarcoma viral oncogene homolog B1
BRK	PTK6	TK	PTK6 protein tyrosine kinase 6
BRSK1	BRSK1	CAMK	BR serine/threonine kinase 1
BTK	BTK	TK	Bruton agammaglobulinemia tyrosine kinase
CAMK1D	CAMK1D	CAMK	calcium/calmodulin-dependent protein kinase ID
CAMK2A	CAMK2A	CAMK	calcium/calmodulin-dependent protein kinase II alpha
CAMK2B	CAMK2B	CAMK	calcium/calmodulin-dependent protein kinase II beta
CAMK2D	CAMK2D	CAMK	calcium/calmodulin-dependent protein kinase II delta
CAMK4	CAMK4	CAMK	calcium/calmodulin-dependent protein kinase IV
CAMKK1	CAMKK1	Other	calcium/calmodulin-dependent protein kinase kinase 1, alpha
CAMKK2	CAMKK2	Other	calcium/calmodulin-dependent protein kinase kinase 2, beta
CDK1/cyclinB	CDK1	CMGC	cyclin-dependent kinase 1
CDK2/cyclinA	CDK2	CMGC	cyclin-dependent kinase 2
CDK5/p25	CDK5	CMGC	cyclin-dependent kinase 5
CDK7/cyclinH/MNAT1	CDK7	CMGC	cyclin-dependent kinase 7
CDK8/cyclinC	CDK8	CMGC	cyclin-dependent kinase 8
CDK9/cyclinK	CDK9	CMGC	cyclin-dependent kinase 9
CDK9/cyclinT1	CDK9	CMGC	cyclin-dependent kinase 9
CHEK1	CHEK1	CAMK	CHK1 checkpoint homolog
CHEK2	CHEK2	CAMK	CHK2 checkpoint homolog
CLK1	CLK1	CMGC	CDC-like kinase 1
CLK2	CLK2	CMGC	CDC-like kinase 2
CLK4	CLK4	CMGC	CDC-like kinase 4
CSF1R	CSF1R	TK	colony stimulating factor 1 receptor
CSK	CSK	TK	c-src tyrosine kinase
CSNK1D	CSNK1D	CK1	casein kinase 1, delta
CSNK1E	CSNK1E	CK1	casein kinase 1, epsilon
CSNK1G1	CSNK1G1	CK1	casein kinase 1, gamma 1
CSNK1G2	CSNK1G2	CK1	casein kinase 1, gamma 2
CSNK1G3	CSNK1G3	CK1	casein kinase 1, gamma 3

Kinase target	Official symbol	Kinase group	Description
DAPK2	DAPK2	CAMK	death-associated protein kinase 2
DDR1	DDR1	TK	discoidin domain receptor family, member 1
DDR2	DDR2	TK	discoidin domain receptor family, member 2
DMPK	DMPK	AGC	dystrophia myotonica-protein kinase
DYRK1A	DYRK1A	CMGC	dual-specificity tyrosine-(Y)-phosphorylation regulated kinase 1A
DYRK1B	DYRK1B	CMGC	dual-specificity tyrosine-(Y)-phosphorylation regulated kinase 1B
DYRK3	DYRK3	CMGC	dual-specificity tyrosine-(Y)-phosphorylation regulated kinase 3
EGFR	EGFR	TK	epidermal growth factor receptor
EGFR L858R	EGFR	TK	epidermal growth factor receptor
EGFR L861Q	EGFR	TK	epidermal growth factor receptor
EGFR T790M	EGFR	TK	epidermal growth factor receptor
EGFR T790M L858R	EGFR	TK	epidermal growth factor receptor
EIF2AK2	EIF2AK2	Other	eukaryotic translation initiation factor 2-alpha kinase 2
EPHA1	EPHA1	TK	EPH receptor A1
EPHA2	EPHA2	TK	EPH receptor A2
EPHA3	EPHA3	TK	EPH receptor A3
EPHA4	EPHA4	TK	EPH receptor A4
EPHA5	EPHA5	TK	EPH receptor A5
EPHA7	EPHA7	TK	EPH receptor A7
EPHA8	EPHA8	TK	EPH receptor A8
EPHB1	EPHB1	TK	EPH receptor B1
EPHB2	EPHB2	TK	EPH receptor B2
EPHB3	EPHB3	TK	EPH receptor B3
EPHB4	EPHB4	TK	EPH receptor B4
ERBB4	ERBB4	TK	v-erb-a erythroblastic leukemia viral oncogene homolog 4
FAK	PTK2	TK	PTK2 protein tyrosine kinase 2
FAK2	PTK2B	TK	protein tyrosine kinase 2 beta
FER	FER	TK	fer (fps/fes related) tyrosine kinase
FES	FES	TK	feline sarcoma oncogene
FGFR1	FGFR1	TK	fibroblast growth factor receptor 1
FGFR2	FGFR2	TK	fibroblast growth factor receptor 2
FGFR3	FGFR3	TK	fibroblast growth factor receptor 3
FGFR3 K650E	FGFR3	TK	fibroblast growth factor receptor 3
FGR	FGR	TK	Gardner-Rasheed feline sarcoma viral oncogene homolog
FLT1	FLT1	TK	fms-related tyrosine kinase 1
FLT3	FLT3	TK	fms-related tyrosine kinase 3
FLT3 D835Y	FLT3	TK	fms-related tyrosine kinase 3
FLT4	FLT4	TK	fms-related tyrosine kinase 4
FRK	FRK	TK	fyn-related kinase
FYN	FYN	TK	FYN oncogene related to SRC, FGR, YES
GRK4	GRK4	AGC	G protein-coupled receptor kinase 4
GRK5	GRK5	AGC	G protein-coupled receptor kinase 5
GRK6	GRK6	AGC	G protein-coupled receptor kinase 6
GRK7	GRK7	AGC	G protein-coupled receptor kinase 7
GSK3A	GSK3A	CMGC	glycogen synthase kinase 3 alpha
GSK3B	GSK3B	CMGC	glycogen synthase kinase 3 beta
HCK	HCK	TK	hemopoietic cell kinase
HIPK3	HIPK3	CMGC	homeodomain interacting protein kinase 3
IGF1R	IGF1R	TK	insulin-like growth factor 1 receptor
IKKa	CHUCK	Other	inhibitor of nuclear factor kappa-B kinase subunit alpha
IKKb	IKBKB	Other	inhibitor of nuclear factor kappa-B kinase subunit beta

Kinase target	Official symbol	Kinase group	Description
IKKe	IKBKE	Other	inhibitor of nuclear factor kappa-B kinase subunit epsilon
INSR	INSR	TK	insulin receptor
IRAK1	IRAK1	TKL	interleukin-1 receptor-associated kinase 1
IRAK4	IRAK4	TKL	interleukin-1 receptor-associated kinase 4
ITK	ITK	TK	IL2-inducible T-cell kinase
JAK2	JAK2	TK	Janus kinase 2
JAK2, JH1 JH2	JAK3	TK	Janus kinase 2
JAK3	JAK3	TK	Janus kinase 3
JNK1	MAPK8	CMGC	mitogen-activated protein kinase 8
JNK2	MAPK9	CMGC	mitogen-activated protein kinase 9
JNK2, inactive	MAPK9	CMGC	mitogen-activated protein kinase 9
JNK3	MAPK10	CMGC	mitogen-activated protein kinase 10
KDR	KDR	TK	kinase insert domain receptor
KIT	KIT	TK	kit oncogene
KIT T670I	KIT	TK	kit oncogene
KIT V654A	KIT	TK	kit oncogene
LCK	LCK	TK	lymphocyte-specific protein tyrosine kinase
LIMK1	LIMK1	TKL	LIM domain kinase 1
LIMK2	LIMK2	TKL	LIM domain kinase 2
LRRK2	LRRK2	TKL	leucine-rich repeat kinase 2
LRRK2 G2019S	LRRK2	TKL	leucine-rich repeat kinase 2
LRRK2 I2020T	LRRK2	TKL	leucine-rich repeat kinase 2
LRRK2 R1441C	LRRK2	TKL	leucine-rich repeat kinase 2
LTK	LTK	TK	leukocyte tyrosine kinase
LYN	LYN	TK	v-yes-1 Yamaguchi sarcoma viral related oncogene homolog
MAP2K1 S218D S222D	MAP2K1	STE	mitogen-activated protein kinase kinase 1
MAP3K2	MAP3K2	STE	mitogen-activated protein kinase kinase kinase 2
MAP3K3	MAP3K3	STE	mitogen-activated protein kinase kinase kinase 3
MAP3K5	MAP3K5	STE	mitogen-activated protein kinase kinase kinase 5
MAP3K7/MAP3K7IP1	MAP3K7	STE	mitogen-activated protein kinase kinase kinase 7
MAP4K2	MAP4K2	STE	mitogen-activated protein kinase kinase kinase kinase 2
MAP4K4	MAP4K4	STE	mitogen-activated protein kinase kinase kinase kinase 4
MAP4K5	MAP4K5	STE	mitogen-activated protein kinase kinase kinase kinase 5
MAPKAPK5	MAPKAPK5	CAMK	mitogen-activated protein kinase-activated protein kinase 5
MARK1	MARK1	CAMK	MAP/microtubule affinity-regulating kinase 1
MARK2	MARK2	CAMK	MAP/microtubule affinity-regulating kinase 2
MARK4	MARK4	CAMK	MAP/microtubule affinity-regulating kinase 4
MEK1	MAP2K1	STE	mitogen-activated protein kinase kinase 1
MEK1, inactive	MAP2K1	STE	mitogen-activated protein kinase kinase 1
MEK1 S218D S222D	MAP2K1	STE	mitogen-activated protein kinase kinase 2
MEK2	MAP2K2	STE	mitogen-activated protein kinase kinase 2
MEK3	MAP2K3	STE	mitogen-activated protein kinase kinase 3
MEK6	MAP2K6	STE	mitogen-activated protein kinase kinase 6
MEK6 S207E T211E	MAP2K6	STE	mitogen-activated protein kinase kinase 6
MELK	MELK	CAMK	maternal embryonic leucine zipper kinase
MER	MERTK	TK	c-mer proto-oncogene tyrosine kinase
MET	MET	TK	met proto-oncogene (hepatocyte growth factor receptor)
MET M1250T	MET	TK	met proto-oncogene (hepatocyte growth factor receptor)
MINK1	MINK1	STE	misshapen-like kinase 1
MKNK2	MKNK2	CAMK	MAP kinase interacting serine/threonine kinase 2
MLK1	MAP3K9	TKL	mitogen-activated protein kinase kinase kinase 9

Kinase target	Official symbol	Kinase group	Description
MLK2	MAP3K10	TKL	mitogen-activated protein kinase kinase kinase 10
MLK3	MAP3K11	TKL	mitogen-activated protein kinase kinase kinase 11
MRCKA	CDC42BPA	AGC	CDC42 binding protein kinase alpha (DMPK-like)
MRCKA	CDC42BPB	AGC	CDC42 binding protein kinase beta (DMPK-like)
MST1R	MST1R	TK	macrophage stimulating 1 receptor
mTOR	FRAP	A typical	FK506 binding protein 12-rapamycin associated protein 1
MUSK	MUSK	TK	muscle, skeletal, receptor tyrosine kinase
MYLK	MYLK	CAMK	myosin, light chain kinase
MYLK2	MYLK2	CAMK	myosin light chain kinase 2, skeletal muscle
NEK2	NEK2	Other	NIMA (never in mitosis gene a)-related kinase 2
NIK	MAP3K14	STE	mitogen-activated protein kinase kinase kinase 14
NLK	NLK	CMGC	nemo-like kinase
NUAK1	NUAK1	CAMK	NUAK family, SNF1-like kinase, 1
p38a	MAPK14	CMGC	mitogen-activated protein kinase 14
p38a, inactive	MAPK14	CMGC	mitogen-activated protein kinase 14
p38d, inactive	MAPK13	CMGC	mitogen-activated protein kinase 13
p38g, inactive	MAPK12	CMGC	mitogen-activated protein kinase 12
PAK4	PAK4	STE	p21(CDKN1A)-activated kinase 4
PAK6	PAK6	STE	p21(CDKN1A)-activated kinase 6
PAK7	PAK7	STE	p21 protein (Cdc42/Rac)-activated kinase 7
PDGFRA	PDGFRA	TK	platelet-derived growth factor receptor, alpha polypeptide
PDGFRA D842V	PDGFRA	TK	platelet-derived growth factor receptor, alpha polypeptide
PDGFRA T674I	PDGFRA	TK	platelet-derived growth factor receptor, alpha polypeptide
PDGFRA V561D	PDGFRA	TK	platelet-derived growth factor receptor, alpha polypeptide
PDGFRB	PDGFRB	TK	platelet-derived growth factor receptor, beta polypeptide
PDK1	PDK1	AGC	3-phosphoinositide dependent protein kinase-1
PHKG1	PHKG1	CAMK	phosphorylase kinase, gamma 1
PHKG2	PHKG2	CAMK	phosphorylase kinase, gamma 2
PIK3CA/PIK3R1	PIK3CA	Lipid	phosphatidylinositol-4,5-bisphosphate 3-kinase alpha
PIK3CD/PIK3R1	PIK3CA	Lipid	phosphatidylinositol-4,5-bisphosphate 3-kinase delta
PIK3CG	PIK3CG	Lipid	phosphatidylinositol-4,5-bisphosphate 3-kinase gamma
PIM1	PIM1	CAMK	pim-1 oncogene
PIM2	PIM2	CAMK	pim-2 oncogene
PKACα	PRKACA	AGC	protein kinase, cAMP-dependent, catalytic, alpha
PKCh	PRKCH	AGC	protein kinase C, eta
PKCi	PRKCI	AGC	protein kinase C, iota
PKCθ	PRKCC	AGC	protein kinase C, theta
PKD1	PRKD1	CAMK	protein kinase D1
PKD2	PRKD2	CAMK	protein kinase D2
PKD3	PRKD3	CAMK	protein kinase D3
PKG1	PRKG1	AGC	protein kinase, cGMP-dependent, type I
PKG2	PRKG2	AGC	protein kinase, cGMP-dependent, type II
PKN1	PKN1	AGC	protein kinase N1
PRKX	PRKX	AGC	protein kinase, X-linked
RAF1 Y340D Y341D	RAF1	TKL	v-raf-1 murine leukemia viral oncogene homolog 1
RET	RET	TK	ret proto-oncogene
RET V804L	RET	TK	ret proto-oncogene
RET Y791F	RET	TK	ret proto-oncogene
RIPK2	RIPK2	TKL	receptor-interacting serine-threonine kinase 2
ROCK1	ROCK1	AGC	Rho-associated, coiled-coil containing protein kinase 1
ROCK2	ROCK2	AGC	Rho-associated, coiled-coil containing protein kinase 2

Kinase target	Official symbol	Kinase group	Description
ROS1	ROS1	TK	v-ros UR2 sarcoma virus oncogene homolog 1
RPS6KA1	RPS6KA1	AGC	ribosomal protein S6 kinase, 90kDa, polypeptide 1
RPS6KA2	RPS6KA2	AGC	ribosomal protein S6 kinase, 90kDa, polypeptide 2
RPS6KA3	RPS6KA3	AGC	ribosomal protein S6 kinase, 90kDa, polypeptide 3
RPS6KA3, inactive	RPS6KA3	AGC	ribosomal protein S6 kinase, 90kDa, polypeptide 3
RPS6KA4	RPS6KA4	AGC	ribosomal protein S6 kinase, 90kDa, polypeptide 4
RPS6KA5	RPS6KA5	AGC	ribosomal protein S6 kinase, 90kDa, polypeptide 5
RPS6KA6	RPS6KA6	AGC	ribosomal protein S6 kinase, 90kDa, polypeptide 6
RPS6KB1	RPS6KB1	AGC	ribosomal protein S6 kinase, 70kDa, polypeptide 1
SGK	SGK	AGC	serum/glucocorticoid regulated kinase
SGK3	SGK3	AGC	serum/glucocorticoid regulated kinase family, member 3
SLK	SLK	STE	STE20-like kinase
SNF1LK2	SNF1LK2	CAMK	SNF1-like kinase 2
SRC	SRC	TK	v-src sarcoma viral oncogene homolog
SRPK2	SRPK2	CMGC	SFRS protein kinase 2
STK3	STK3	STE	serine/threonine kinase 3
STK4	STK4	STE	serine/threonine kinase 4
STK16	STK16	Other	serine/threonine kinase 16
STK17A	STK17A	CAMK	serine/threonine kinase 17a
STK22D	STK22D	CAMK	testis-specific serine kinase 1B
STK25	STK25	STE	serine/threonine kinase 25
STK33	STK33	CAMK	serine/threonine kinase 33
SYK	SYK	TK	spleen tyrosine kinase
TAOK2	TAOK2	STE	TAO kinase 2
TAOK3	TAOK3	STE	TAO kinase 3
TBK1	TBK1	Other	TANK-binding kinase 1
TEC	TEC	TK	tec protein tyrosine kinase
TEK	TEK	TK	TEK tyrosine kinase, endothelial
TGFBR1	TGFBR1	TKL	transforming growth factor, beta receptor I
TGFBR2	TGFBR2	TKL	transforming growth factor, beta receptor II
TNK2	TNK2	TK	tyrosine kinase, non-receptor, 2
TTK	TTK	Other	TTK protein kinase
TYK2	TYK2	TK	tyrosine kinase 2
TYRO3	TYRO3	TK	TYRO3 protein tyrosine kinase
WNK2	WNK2	Other	WNK lysine deficient protein kinase 2
WNK3	WNK3	Other	WNK lysine deficient protein kinase 3
YES1	YES1	TK	v-yes-1 Yamaguchi sarcoma viral oncogene homolog 1
ZAP70	ZAP70	TK	zeta-chain (TCR) associated protein kinase 70kDa

FEATURES & BENEFITS

- Determination of affinity, k_{on} , k_{off} and residence time in one assay format
- Broad K_i dynamic range: <1 nM to >10 μ M
- 240 ready-to-use assays
- Parallel SAR and SKR studies
- Quantify binding to inactive or low activity kinases
- HTS format
- Rapid turnaround time: \leq 2 weeks
- Accurate and reproducible data

APPLICATIONS

- Primary screening
- Orthogonal screening
- Lead optimization programs
- Kinetic Selectivity profiling

To learn more about our kinetic characterization services visit www.enzymlogic.com or contact us at info@enzymlogic.com