

# Binding kinetic assays

## AGC

DMPK	PRKX
GRK4	ROCK1
GRK5	ROCK2
GRK6	RPS6KA1
GRK7	RPS6KA2
MRCKA	RPS6KA3
MRCKA	RPS6KA3, inactive
PDK1	RPS6KA4
PKA $\alpha$	RPS6KA5
PKCh	RPS6KA6
PKCi	RPS6KB1
PKC $\dagger$	SGK
PKG1	SGK3
PKG2	
PKN1	

## TK

ABL1	EGFR L858R	ERBB4	FYN	MER	SYK
ABL1 E255K	EGFR L861Q	FAK	HCK	MET	TEC
ABL1 G250E	EGFR T790M	FAK2	IGF1R	MET M1250T	TEK
ABL1 Y253F	EGFR T790M L858R	FER	INSR	MST1R	TNK2
ABL2	EPHA1	FES	ITK	MUSK	TYK2
AXL	EPHA2	FGFR1	JAK2	PDGFRA	TYRO3
BLK	EPHA3	FGFR2	JAK2, JH1 JH2	PDGFRA D842V	YES1
BMX	EPHA4	FGFR3	JAK3	PDGFRA T674I	ZAP70
BRK	EPHA5	FGFR3 K650E	KDR	PDGFRA V561D	
BTK	EPHA7	FGR	KIT	PDGFRB	
CSF1R	EPHA8	FLT1	KIT T670I	RET	
CSK	EPHB1	FLT3	KIT V654A	RET V804L	
DDR1	EPHB2	FLT3 D835Y	LCK	RET Y791F	
DDR2	EPHB3	FLT4	LTK	ROS1	
EGFR	EPHB4	FRK	LYN	SRC	

## Atypical

mTOR

## CKI

CSNK1D  
CSNK1E  
CSNK1G1  
CSNK1G2  
CSNK1G3

## Lipid

PIK3CA/PIK3R1  
PIK3CD/PIK3R1  
PIK3CG

## CAMK

AMPK $\alpha$ 1	MELK	STK33
AMPK $\alpha$ 2	MKNK2	
BRSK1	MYLK	
CAMK1D	MYLK2	
CAMK2A	NUAK1	
CAMK2B	PHKG1	
CAMK2D	PHKG2	
CAMK4	PIM1	
CHEK1	PIM2	
CHEK2	PKD1	
DAPK2	PKD2	
MAPKAPK5	PKD3	
MARK1	SNF1LK2	
MARK2	STK17A	
MARK4	STK22D	

## CMGC

CDK1/cyclinB	HIPK3
CDK2/cyclinA	JNK1
CDK5/p25	JNK2
CDK7/cyclinH/MNAT1	JNK2, inactive
CDK8/cyclinC	JNK3
CDK9/cyclinK	NLK
CDK9/cyclinT1	p38 $\alpha$
CLK1	p38 $\alpha$ , inactive
CLK2	p38d, inactive
CLK4	p38g, inactive
DYRK1A	SRPK
DYRK1B	
DYRK3	
GSK3A	
GSK3B	

## STE

MAP2K1 S218D S222D	MINK1
MAP3K2	NIK
MAP3K3	PAK4
MAP3K5	PAK6
MAP3K7	PAK7
MAP4K2	SLK
MAP4K4	STK3
MAP4K5	STK4
MEK1	STK5
MEK1, inactive	TAOK2
MEK1 S218D S222D	TAOK3
MEK2	
MEK3	
MEK6	
MEK6 S207E T211E	

## TKL

ACVR1	MLK2
ACVR2A	MLK3
ACVR2B	RAF1 Y340D Y341D
BMPR1A	RIPK2
BRAF	TGFBR1
BRAF V599E	TGFBR2
IRAK1	
IRAK4	
LIMK1	
LIMK2	
LRRK2	
LRRK2 G2019S	
LRRK2 I2020T	
LRRK2 R1441C	
MLK1	

## Others

AURKA	IKK $\epsilon$
AURKB	NEK2
CAMKK1	STK16
CAMKK2	TBK1
EIF2AK2	TTK
IKK $\alpha$	WNK2
IKK $\beta$	WNK3

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### FEATURES & BENEFITS

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- Determination of affinity,  $k_{on}$ ,  $k_{off}$  and residence time in one assay format
- Broad  $K_i$  dynamic range: <1 nM to >10  $\mu$ 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

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

To learn more about our binding kinetic services visit [www.enzymlogic.com](http://www.enzymlogic.com) or contact us at [info@enzymlogic.com](mailto:info@enzymlogic.com)