

LabChip | ProfilerPro

Kinase Selectivity Assay Kits

ProfilerPro Kinase Selectivity Assay Kits enable the rapid in-house profiling of 192 kinases against up to 12 different compounds at ATP K_m . Enzymes and matched fluorescent peptide substrates are pre-dispensed into reaction-ready 384 well microtiter plates. Each kinase yields a predictable conversion of substrate (non-phosphopeptide) to product (phosphopeptide) at ATP K_m . Controls arrayed on the plate enable calculation of percent kinase inhibition of up to 12 customer selected compounds. ProfilerPro Kinase Selectivity Assay Kits are read using the LabChip EZ Reader or other ProfilerPro compliant reader.

Broad Kinome Coverage

Over 500 human kinases have been identified which, by adding a phosphate group to a protein, regulate a diverse set of cell functions such as cell growth, metabolism, differentiation, and apoptosis. Alterations in kinase activity can result in various diseases including cancer, inflammation, diabetes, cardiovascular and neurological disorders and therefore are important drug targets.

Compounds which interfere with kinase activity need to display a level of specificity for the kinase targeted without causing adverse effects on other cellular functions.

Profile Sooner, Outsource Smarter

The earlier profiling is introduced into kinase drug discovery, the better. ProfilerPro Kinase Selectivity Assay Kits enable investigators to determine compound selectivity across the kinome quickly, easily and without the need to send out compounds, freeing up valuable resources to focus on compounds that have the best chance of moving forward.

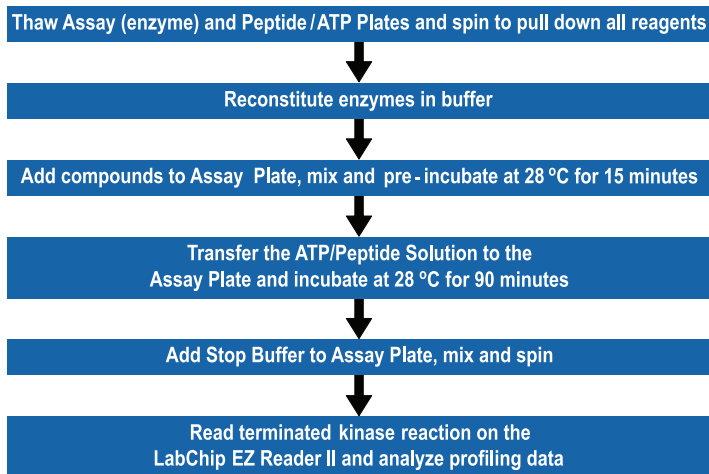


Plate 1			
ABL	TK	LCK	TK
AKT1	AGC	LYN α	TK
AKT2	AGC	MAPKAPK2	CAMK
AurA	Atypical	MET	TK
CHK1	CAMK	MSK1	AGC
CHK2	CAMK	p38 α	CMGC
Ck1 δ	CK1	PDK2	CAMK
Erk1	CMGC	PKAC α	AGC
Erk2	CMGC	PKC ζ	AGC
FYN	TK	PRAK (MAPKAPK5)	CAMK
GSK3 β	CMGC	RSK1	AGC
INSR	TK	SRC	TK

Plate 3			
ABL (H396P)	TK	FGFR3	TK
ABL (Q252H)	TK	FGFR4	TK
ABL[T315I]	TK	FLT3 (D835Y)	TK
AKT3	AGC	HCK	TK
AurB	Atypical	IKKb	Atypical
AurC	Atypical	MAPKAPK3	CAMK
CaMK2 β	CAMK	p38 β 2	CMGC
CaMK2 γ	CAMK	p38 δ	CMGC
EGFR	TK	PDGFR α	TK
FER	TK	PKG1 β	AGC
FGFR2	TK	TSSK1	CAMK
FGFR2 (N549H)	TK	TSSK2	CAMK

Plate 5			
ABL[E255K]	TK	FES	TK
ABL (G250E)	TK	FGR	TK
ABL (Y253F)	TK	FLT1	TK
DYRK1B	CMGC	FLT4	TK
EPHA1	TK	FMS (CSF1R)	TK
EPHA2	TK	GCK (MAP4K2)	STE
EPHA3	TK	HER4 (ERBB4)	TK
EPHA4	TK	LTK	TK
EPHA5	TK	LYN β	TK
EPHB2	TK	MINK (MINK1)	STE
EPHB3	TK	MST1 (STK4)	STE
EPHB4	TK	TEC	TK

Plate 7			
AMPK- α 2/ β 1/ γ 1	CAMK	MARK4	CAMK
AXL	TK	MELK	CAMK
CaMK2 α	CAMK	Mer	TK
CDC2/Cyclin B1	CMGC	Met (M1250T)	TK
CK1 γ 3 (CSNK1G3)	CK1	PRKCI (PKC ι)	AGC
EGFR (T790M, L858R)	TK	RET	TK
EPHB1	TK	RET (Y791F)	TK
FGFR3 (K650E)	TK	ROS (ROS1)	TK
ITK	TK	TRKC (NTRK3)	TK
JAK2	TK	TXK	TK
KIT	TK	TYRO3	TK
KIT[T670I]	TK	ZIPK (DAPK3)	CAMK

Plate 2			
AMPK α 1	CAMK	MARK1	CAMK
BTK	TK	MST2	STE
CaMK2 δ	CAMK	P70S6K	AGC
CaMK4	CAMK	PAK2	STE
CDK2	CMGC	PIM2	CAMK
cTAK1	TKL	PKC β 2	AGC
DYRK1A	CMGC	PKG α	AGC
FGFR1	TK	cRAF (RAF1)	TKL
FLT3	TK	ROCK2	AGC
HGK	STE	SGK1	AGC
IGF1R	TK	SYK	TK
IRAK4	TKL	VEGFR2 (KDR)	TK

Plate 4			
ARG	TK	PKC β 1	AGC
BMX	TK	PKC δ	AGC
BRSK1	CAMK	PKC ϵ	AGC
BRSK2	CAMK	PKC γ	AGC
CSNK1A1 (CK1 α)	CK1	PKC η	AGC
DCaMKL2	CAMK	PKC θ	AGC
MARK2	CAMK	PKD1	CAMK
MSK2 (RPS6KA4)	AGC	PKD3	CAMK
NEK2	Atypical	RSK2	AGC
p38 γ	CMGC	RSK3	AGC
PIM1	CAMK	SGK2	AGC
PKC α	AGC	SGK3 (SGKL)	AGC

Plate 6			
ALK	TK	HIPK2	CMGC
BLK	TK	MST1R	TK
CDK5/p25	CMGC	PASK	CAMK
CLK2	CMGC	PDGFR α [V561D]	TK
DAPK1	CAMK	PHKG1	CAMK
DCaMKL1	CAMK	PHKG2	CAMK
DYRK3	CMGC	PIM3	CAMK
DYRK4	CMGC	PYK2 (PTK2B)	TK
EGFR (T790M)	TK	ROCK1	AGC
EPHA8	TK	RSK4	AGC
FRK	TK	YES	TK
HIPK1	CMGC	Casein kinase 1g2	CK1

Plate 8			
CaMK1 α	CAMK	NEK1	Atypical
CaMK1 δ	CAMK	NTRK2 (TRKB)	TK
CDK3	CMGC	NuaK1	CAMK
CK1 γ 1 (CSNK1G1)	CK1	p38 α (T106M)	CMGC
CK1 ϵ	CK1	PAK3	STE
DDR2	TK	PAK4	STE
FGFR1 (V561M)	TK	PAK5 (PAK7)	STE
GSK3 α	CMGC	PDGFR α (D842V)	TK
IKBKE (IKK ϵ)	Atypical	PDGFR β	TK
LOK	STE	PRKX	AGC
MNK1 (MKNK1)	CAMK	RET (V804L)	TK
MST3 (STK24)	STE	SRM (SRMS)	TK

Ordering Information

Item	Part Number
Plate 1	760373
Plate 2	760374
Plate 3	760441
Plate 4	760442
Plate 5	760462

Item	Part Number
Plate 6	760463
Plate 7	Contact Us
Plate 8	Contact Us
ProfilerPro Chip	760375
ProfilerProSeparation Buffer with CR8	760367

Note: Kinases in panel subject to change over time, please contact Caliper for updates