



KINASE RESEARCH TOOLS

FOR CELL SIGNALING DISCOVERY

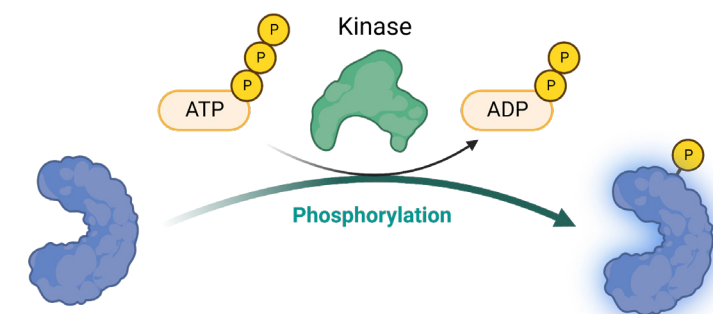
Active Proteins | Assay Kits | Substrates | Inhibitors
CRISPR/Cas9 Kinase Knock-out Lentivirus Library



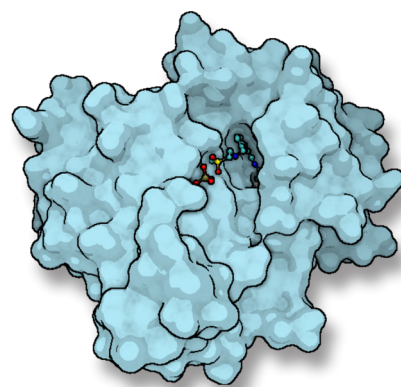
A Master Controller of Cell Functions

Protein phosphorylation regulates a large number of cellular processes including cellular division, metabolism, signal transduction, and many more. There are over 500 kinases encoded by the human genome and it has been estimated that kinases regulate approximately 50% of cellular functions. Kinase is the name given to an enzyme that catalyzes the transfer of a phosphate group from ATP to another molecule. Kinases can be broadly separated by their substrate into protein, lipid, nucleotide, and carbohydrate kinases with the protein kinases being further classified based on their cellular location and the specific amino acid(s) they phosphorylate. They are now key therapeutic targets across many disease areas.

Phosphorylation



Images created with Biorender.com.



EGFR kinase domain complexed with an inhibitor, Lapatinib. (PDB ID: 1XKK)

Our Advantages



Produced In-House

- Made in the USA at our San Diego, CA laboratory
- Get customized, personal support directly from the source



Committed to Excellence

- ISO 9001:2015-certified Quality Management System
- Lot-specific quality testing



Protein Expression & Screening Services

- Unique panel of 80+ assays for evaluation of lead compounds
- Select from IC₅₀ determination or single point concentrations
- Perform follow-up studies using the same proteins manufactured in-house



Expansive Portfolio

- Active kinase complexes: mTOR, 10+ PI3 Kinase complexes, AMPK, and more
- Active kinase mutants: TRKC, LRRK2, JAK2, cKit, and 35+ EGFR mutants
- 100+ activity assay kits
- CRISPR/Cas9 Kinase Knockout Lentiviruses

Bioactive Recombinant Proteins

BPS Bioscience specializes in manufacturing bioactive enzymes and protein complexes, offering over 2000 protein products critical for drug discovery. Our kinase portfolio consists of proteins from six kinase families: lipid, receptor tyrosine, serine-threonine, cytoplasmic tyrosine, pyruvate, and fructokinase. Our offerings include wild-type and mutant variants of key proteins, including JAK2, TRKC, LRRK2, FGFR3, and EGFR.

Protein substrates and inhibitors are also available.

Protein options include:



HiP™ Proteins (High Purity, Low Aggregation)

- >90% purity
- Verified via HPLC to guarantee <10% aggregation
- Ideal for studying enzyme activity, ligand binding, protein folding, and more

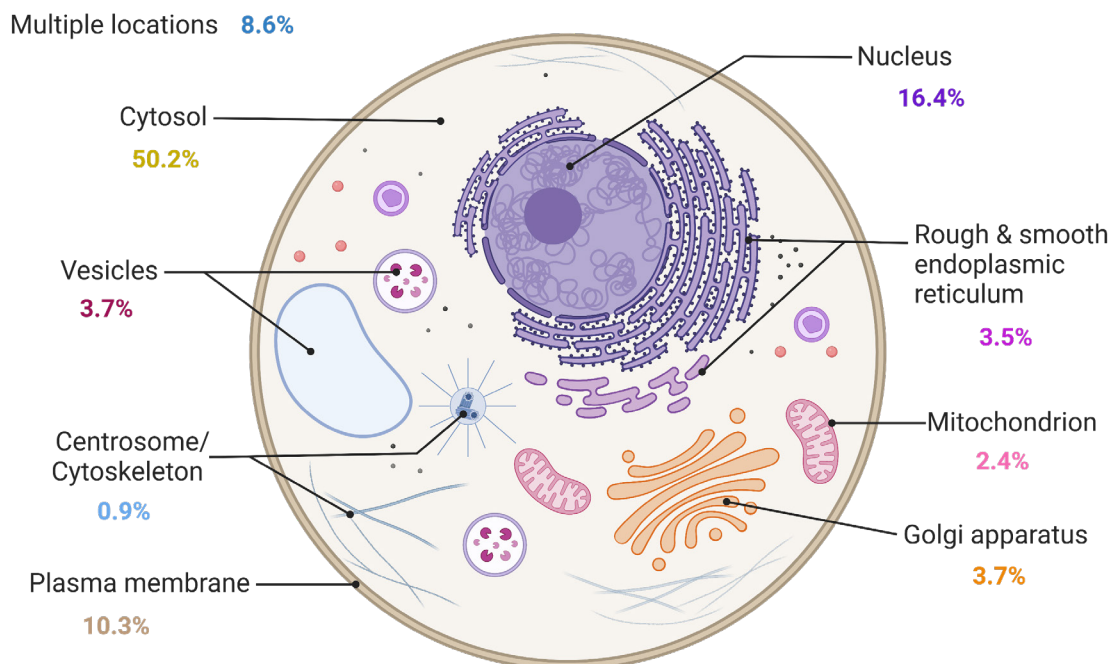
Bulk Production and Customization

Product sizing, formulations, tags, mutations, and activity testing can be customized to meet your research needs.

Featuring

- Active complexes, including AMPK, PI3 Kinase, CDK/Cyclin, and more
- Active protein domains, including JAK2 JH2, JAK3 JH2, TYK2 JH2, PLK1 Polo Box, and more.

Where are kinases found in the cell?













Data from: Zhang, H. et al. 2021. eLife. [64943](https://doi.org/10.7554/eLife.64943). Image created with Biorender.com.

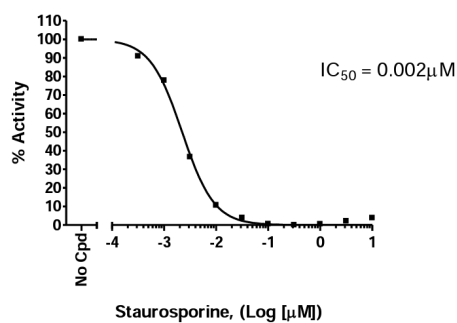
Biochemical Assay Kits

Our 100+ kinase assay kits enable your compound and biotherapeutic drug discovery by providing specific, highly sensitive analysis in a variety of formats. Many of our kits are provided as homogenous assays, with no wash steps, for efficient high throughput screening.

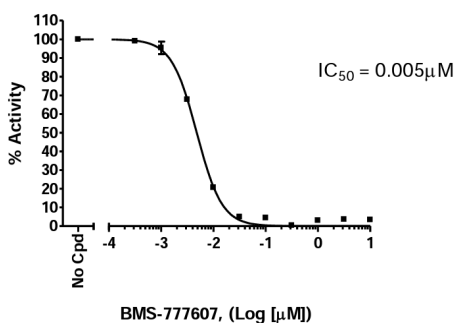
Compare assay formats:

AlphaLISA™	Chemiluminescent	Colorimetric	Fluorescence Polarization	Fluorogenic	Luminescent	TR-FRET	UV Spectrophotometric		
✓	✓	✓	✓	✓	✓	✓	✓		High specificity
✓	✓		✓	✓	✓	✓	✓		High sensitivity with low background noise.
✓			✓	✓	✓	✓	✓		Simple operation
✓			✓	✓	✓	✓	✓		Homogeneous, no-wash format makes it simple for high throughput screening.
✓			✓	✓		✓	✓		Real-time readings do not require equilibrium conditions.
✓			✓			✓	✓		Small volume reactions save on sample consumption.
✓	✓				✓				Large dynamic range, up to 4-5 logs.
			✓			✓			Highly stable signal allows for repetitive measurements.
		✓					✓		Common, low-cost instrumentation
						✓			Use of lanthanide donor fluorophores minimizes photobleaching.

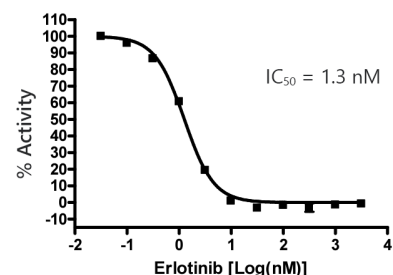
JAK2 Inhibition by Staurosporine



Tyros3 Inhibition by BMS-777607



EGFR Inhibition by Erlotinib



Biochemical Screening Services

BPS Bioscience offers rapid and dependable kinase screening services to determine IC₅₀ values of small molecules, peptides, and antibodies against requested targets. Our team of experts along with our broad services portfolio make it easy to:

- Screen for inhibitors/targets
- Select from IC₅₀ determination and single point concentrations
- Perform follow-up studies using the same proteins manufactured in-house
- Get questions answered or project guidance in a time-efficient manner

Our Deliverables to You

Detailed Results



Extensive report with raw and analyzed data, graphs, and detailed protocols. Typically includes positive controls for inhibition.

Fast Turnaround



Receive results within weeks after our receipt of your compounds.

Quality & Consistency



Proteins and enzymes synthesized and QC'd in-house to ensure the highest level of inter- and intra-assay consistency.

Extensive Selection



Choose from over 80 in-house developed kinase assays, including many novel assay kits.

Platform Options



Choose the format that works best for your experiment or perform orthogonal testing on multiple platforms to verify your results.

Why choose BPS Bioscience for your screening projects?

- We can provide end-to-end customization from protein production to assay development, completing with compound screening.
- We have extensive expertise and experience in developing and manufacturing custom and off-the-shelf kinase proteins and assay kit products.
- We have helped accelerate projects across large pharma, vaccine developers, biotech and basic research institutions.
- Our high quality projects have returned excellent customer satisfaction scores.

Give us a try today.

CRISPR/Cas9 Kinase Knockout Library

Our CRISPR/Cas9 Kinase Knockout Lentivirus Library consists of ready-to-use, VSV-G pseudotyped integrating lentiviruses intended for use in generating kinase knockouts for screening purposes.

Array Format (#78487)



Targets 619 human kinases and pseudokinases



5 sgRNAs per gene



150 control sgRNAs included



Puromycin selection

- 649 vials come with 200 μ l of lentivirus each at a titer $\geq 1 \times 10^7$ TU/ml; the exact titer is provided with each shipment.

Advantages

- All-in-One: each vial contains lentiviral particles to transduce the Cas9 gene, 5 sgRNAs targeting the kinase of interest, and a puromycin selection marker. There is no requirement for the target cell to already express Cas9.
- Safe: requires only Biosafety Level 2 (BSL-2).
- Each sgRNA lentiviral particle is individually constructed, sequence-verified, individually cultured, and titered to ensure high quality and representation across the entire library.
- VSV-G pseudoviruses transduce most mammalian cells, including primary and non-dividing cells.

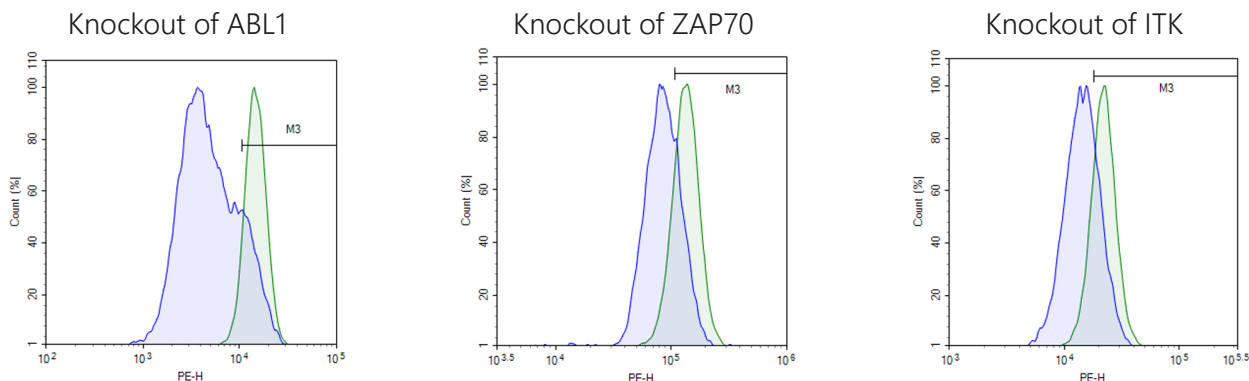
Custom Panels

- The Custom Panel option allows you to pick between 2-50 kinases out of the full human kinase library. One vial of 200 μ l of lentivirus is provided for each target.
- Download the full target list and request a quote here: bpsbioscience.com/crispr-kinasepanel

Single Target (#78488)

- If you are only interested in a single kinase target to knock out, this option is available.
- Receive two vials, each with 200 μ l of lentivirus at a titer $\geq 1 \times 10^7$ TU/ml.

Flow cytometry confirmation of kinase knockouts in Jurkat cells:



Kinase Assay Kits	Catalog#	Kinase Assay Kits	Catalog#
5X Raf Substrate	79569	EPHA2 Assay Kit	78002
ABL (T315I) Assay Kit	79576	EPHA4 Kinase Assay Kit	78592
AKT1 Assay Kit	78038	EPHB4 Kinase Assay Kit	78009
ALK1 Kinase Assay Kit	79549	FAK Kinase Assay Kit	40722
ALK2 Kinase Assay Kit	79605	FGFR2 Assay Kit	79804
ATP (500 μ M)	79686	FGFR3 (L496V) Assay Kit	79818
AXL Kinase Assay Kit	79711	FGFR3 (V443L) Assay Kit	79819
BRAF (V600E) Kinase Assay Kit	48688	FGFR3 (V443M) Assay Kit	79817
BRAF (WT) Kinase Assay Kit	78316	FGFR4 Assay Kit	79807
BTK (C481S) Kinase Assay Kit	78801	FLT1 Kinase Assay Kit	78019
BTK Assay Kit	79568	FLT3 Kinase Assay Kit	79797
c-Mer Kinase Assay Kit	79660	FYN Assay Kit	78003
c-Met (del 963-1009) Kinase Assay Kit	79930	GSK3 α Assay Kit	79698
c-Met Kinase Assay Kit	79559	GSK3 β Assay Kit	79700
c-Raf Kinase Assay Kit	79570	HER2 Kinase Assay Kit	40721
CDK1 Assay Kit	79597	HER4 Assay Kit	78005
CDK12/Cyclin K Kinase Assay Kit	78298	HIPK3 Kinase Assay Kit	78382
CDK2 Assay Kit	79599	HPK1 Assay Kit	79775
CDK4 Assay Kit	79674	IKK β Kinase Assay Kit	78507
CDK5 Assay Kit	79600	IRAK1 Kinase Assay Kit	78523
CDK6/CyclinD3 Kinase Assay Kit	78395	IRAK4 Kinase Assay Kit	78524
CDK7 Assay Kit	79603	ITK Kinase Assay Kit	78429
CDK9 Assay Kit	79628	JAK1 (Janus Kinase 1) Assay Kit	79518
CHK1 Kinase Assay Kit	78418	JAK2 (Janus Kinase 2) Assay Kit	79520
CHK2 Kinase Assay Kit	78421	JAK2 JH2 Pseudokinase Domain Inhibitor Screening Assay Kit	78111
cKIT (D816V) Assay Kit	79889	JAK2-JH2 Pseudokinase Domain (V617F, W659A, W777A, F794H) Inhibitor Screening Assay Kit	78209
cKIT (V654A) Assay Kit	79890	JAK2-JH2 Pseudokinase Domain (W659A, W777A, F794H) Inhibitor Screening Assay Kit	78208
cKIT Assay Kit	79815	JAK3 (Janus Kinase 3) Assay Kit	79521
CSK Kinase Assay Kit	78818	Kinase Buffer 1	79334
DYRK1B Kinase Assay Kit	78401	LCK Assay Kit	79794
DYRK2 Kinase Assay Kit	78392	MAP3K14 Kinase Assay Kit	78440
EGFR (T790M, C797S) (del746-750) Kinase Assay Kit	78595	MNK1 Kinase Assay Kit	78032
EGFR (T790M/C797S/ L858R) Kinase Assay Kit	40326	Mouse ITK Kinase Assay Kit	78520
EGFR Kinase Assay Kit	40321	NEK6 Kinase Assay Kit	79992
EGFR(L858R) Kinase Assay Kit	40324	p70S6K (S6K1) Kinase Assay Kit	78806
EGFR(T790M) Kinase Assay Kit	40323	PDGFR α (D842I) Assay Kit	79761
EGFR(T790M/L858R) Kinase Assay Kit	40322	PDGFR α (D842V) Assay Kit	79828
EIF2AK2 Kinase Assay Kit	78433	PDGFR α (D842Y) Assay Kit	79760

Kinase Assay Kits		Catalog#	Kinase Cell Lines		Catalog#
PDK3 Kinase Assay Kit		78286	CSF1R / SRE - Reporter HEK293 Recombinant Cell Line		79380
PI3K α (p110 α /p85) Assay Kit		79781	Human EGFRvIII- CHO K1 Recombinant Cell Line (High or Low Expression)		78145
PI3K β (p110 β /p85 α) Assay Kit		79802	ROR1 CHO Recombinant Cell Line (High, Medium, or Low Expression)		79609
PI3K γ (p110 γ /PIK3R5) Assay Kit		79803	TrkA / SRE Reporter - HEK293 Recombinant Cell Line		79798
PIM1 Assay Kit		79885	VEGFR2 / NFAT Reporter - HEK293 Recombinant Cell Line		79387
PIM3 Assay Kit		79886			
Rat ITK Kinase Assay Kit		78513			
RET Assay Kit		79566			
RIPK1 Kinase (Mouse) Assay Kit		79897			
RIPK1 Kinase Assay Kit		79560			
RIPK1 Kinase Assay Kit (384-well)		79689			
RIPK2 Kinase Assay Kit		79737			
ROCK1 Kinase Assay Kit		78386			
ROCK2 Kinase Assay Kit		78407			
ROS1 Kinase Assay Kit		78189			
SPHK1 Assay Kit		78026			
SRC Assay Kit		79680			
STK4(MST1) Kinase Assay Kit		78500			
SYK Assay Kit		79671			
TAK1-TAB1 Kinase Assay Kit		78037			
TGF β R1 (ALK5) Kinase Assay Kit		78819			
Tie2 Kinase Assay Kit		78573			
TNIK Kinase Assay Kit		78370			
TrkA Assay Kit		79548			
TRKB Kinase Assay Kit		78591			
TRKC Kinase Assay Kit		78528			
TTK (MPS-1) Kinase Assay Kit		78356			
TYK2 (Tyrosine Kinase 2) Assay Kit		79527			
TYK2 JH2 Pseudokinase Domain Inhibitor Screening Assay Kit		78107			
TYR Phosphorylation Assay Kit		79502			
TYRO3 Kinase Assay Kit		79593			
ULK1 Kinase Assay Kit		78362			
ULK2 Kinase Assay Kit		78367			
VEGFR2 (KDR) Kinase Assay Kit		40325			
VEGFR3(FLT4) Kinase Assay Kit		79738			
Wee1 Assay Kit		79909			
YES1 Assay Kit		79681			
ZAP70 Kinase Assay Kit		78427			
			Lipid Kinases		Catalog#
			Ceramide Kinase, FLAG-tag Recombinant		40617
			CERK, FLAG-Tag (Mouse) Recombinant		79413
			CERK, FLAG-Tag (Rat) Recombinant		79414
			DGKa, His-Avi-Tag, Biotin-Labeled Recombinant		100964
			IP6K2, Biotin-labeled, His-tag, Avi-tag Recombinant		40643
			IP6K2, FLAG-His-tags Recombinant		40642
			Mouse Sphingosine kinase 1a, His-tag Recombinant		40613
			Mouse Sphingosine kinase 2, His-tag Recombinant		40614
			p85 α , His-tag Recombinant		40630
			PI3 Kinase (p110 α /p55 γ), His-Tag Recombinant		40645
			PI3 kinase (p110 α /p85 α) Recombinant		40621
			PI3 kinase (p110 α /p85 α) Recombinant		40620
			PI3 kinase (p110 β /p85 α), FLAG-tag Recombinant		40622
			PI3 kinase (p110 γ /PIK3R5) complex, His-tag, GST-tag Recombinant		40626
			PI3 kinase (p110 δ /p85 α) Recombinant		40628
			PI3 kinase (p120 γ), His-tag Recombinant		40625
			PI3 kinase p110 α (N345K)/p85 α Recombinant		40646
			PI3 kinase p110 α (E545K)/p85 α Recombinant		40640
			PI3 kinase p110 α (H1047R)/p85 α , FLAG-Tag Recombinant		40641
			PI3 kinase p110 α (K111N)/p85 α Recombinant		40639
			PI3 Kinase [p110 α (E545K)/p85 α], His-Tag Recombinant		40644
			PIP5K1A, GST-tag Recombinant		40305
			PIP5K3, GST-Tag Recombinant		101323
			Sphingosine kinase 1, His-tag Recombinant		40610
			Sphingosine Kinase 2 (Transcript Variant 1), His-Tag Recombinant		40612
			Sphingosine kinase 2, His-tag Recombinant		40611
			VPS34, FLAG-tag Recombinant		40690
			Tyrosine Kinases		Catalog#
			Abl Kinase Mutant (T315I), His-tag Recombinant		40415
			Abl Kinase, His-tag Recombinant		40411

Tyrosine Kinases	Catalog#	Tyrosine Kinases	Catalog#
ABL2, His-tag Recombinant	40417	EGFR (C797S) GST-Tag Recombinant	79430
ACK1, GST-tag Recombinant	40400	EGFR (C797S), DEL 746-750, GST-Tag Recombinant	79433
ALK, GST-tag Recombinant	40214	EGFR (D761Y), GST-Tag Recombinant	79441
AXL, FLAG-Tag Recombinant	100174	EGFR (D770GY), GST-Tag Recombinant	79442
Axl, GST-Tag Recombinant	40180	EGFR (G719C), GST-Tag Recombinant	79445
BLK, GST-tag Recombinant	40401	EGFR (G719D), GST-Tag Recombinant	79446
BMX, GST-tag Recombinant	40402	EGFR (G719S), GST-Tag Recombinant	79447
BRK, GST-tag Recombinant	40403	EGFR (L747S), GST-Tag Recombinant	79450
BTK(C481F), His-Tag Recombinant	101040	EGFR (L858R), GST-tag Recombinant	40189
BTK(C481R), His-Tag Recombinant	101041	EGFR (L861Q), GST-Tag Recombinant	79451
BTK(C481S), His-Tag Recombinant	101039	EGFR (P753S), DEL 747-752, GST-Tag Recombinant	79439
BTK(P190K), His-Tag Recombinant	101042	EGFR (T790M C797S), DEL 746-750, GST-Tag Recombinant	79434
BTK(T474I), His-Tag Recombinant	101045	EGFR (T790M C797S), GST-Tag Recombinant	79453
BTK(Y485F), His-Tag Recombinant	101046	EGFR (T790M L858R), DEL 746-750, GST-Tag Recombinant	79435
BTK, GST-His-Tag Recombinant	40405	EGFR (T790M L978I), DEL 746-750, GST-Tag Recombinant	79436
c-Mer, GST-tag (Human) Recombinant	40254	EGFR (T790M), His-tag, GST-tag Recombinant	40188
c-MET (del 963-1009), GST-tag Recombinant	100643	EGFR (T790M, C797S, L858R), His-Tag, GST-tag Recombinant	40351
c-Met, GST-tag Recombinant	40255	EGFR (T790M, L858R), GST-tag, His-tag Recombinant	40350
cKit (D816V), His-tag Recombinant	40252	EGFR (V948R), His-Tag Recombinant	101644
cKit (V560G), His-tag Recombinant	40253	EGFR, DEL 747-749, GST-Tag Recombinant	79438
cKit (V654A), His-tag Recombinant	40251	EGFR, DEL 752-759, GST-Tag Recombinant	79440
cKit, His-tag Recombinant	40250	EGFR, His-tag, GST-tag Recombinant	40187
CSF1R, Fc-Fusion, Avi-Tag (Human) HiP™ Recombinant	72550	EGFR, INS A763-FHEA-Y764, GST-Tag Recombinant	79427
CSF1R, GST-His-Tag Recombinant	40227	EGFR, INS D770-GF-N771, GST-Tag Recombinant	79443
CSF1R, untagged (FMS, CD115) Recombinant	79110	EGFR, INS D770-NPG-N771, GST-Tag Recombinant	79444
CSK Kinase Assay Kit	78818	EGFR, INS H773-AH-V774, GST-Tag Recombinant	79448
CSK, GST-His-Th-Tag Recombinant	40410	EGFR, INS P772-NPH-H773, GST-Tag Recombinant	79452
DDR1, Fc Fusion (IgG1), Avi-Tag HiP™ Recombinant	101375	EPHA1, GST-tag Recombinant	40191
DDR1, Fc Fusion (IgG1), Avi-Tag, Biotin-Labeled Recombinant	101378	EPHA2, His-tag Recombinant	40190
DDR1, GST-tag Recombinant	40184	EPHA3, GST-tag Recombinant	40192
DDR2, Fc Fusion (IgG1), Avi-Tag Recombinant	101376	EPHA4, GST-tag Recombinant	40193
DDR2, Fc Fusion (IgG1), Avi-Tag, Biotin Labeled Recombinant	101377	EPHA6, GST-tag Recombinant	40194
DDR2, GST-tag Recombinant	40185	EPHB2, His-tag Recombinant	40200
EGFR (A750P), DEL 747-749, GST-Tag Recombinant	79437	EPHB3, GST-tag Recombinant	40186
EGFR (C775S T790M L858R), DEL 746-750, GST-Tag Recombinant	79431	EPHB4, His-tag Recombinant	40201
EGFR (C775S T790M L858R), GST-Tag Recombinant	79428	EPOR-(GSSG)6- JAK2(V617F, Y1007F, Y1008F) Recombinant	100713
EGFR (C797A), DEL 746-750, GST-Tag Recombinant	79432	FAK, GST-tag Recombinant	40420
EGFR (C797A), GST-Tag Recombinant	79454	FES, His-FLAG-tag Recombinant	40425

Tyrosine Kinases	Catalog#	Tyrosine Kinases	Catalog#
FGFR1 (V561M), GST-tag Recombinant	40209	JAK2 (JH2 Domain) (E596A, V617F, W659A, W777A, F794H), His-Tag Recombinant	100122
FGFR1(FLT2), GST-tag Recombinant	40210	JAK2 (JH2 Domain) (V617F, W659A, W777A, F794H), His-Tag Recombinant	100124
FGFR1, Avi-His-Tag, Biotin-labeled (Dephosphorylated) Recombinant	100692	JAK2 (JH2 Domain) (W659A, W777A, F794H), His-Tag Recombinant	100123
FGFR2, DEL (429-430), His-Tag (Dephosphorylated) Recombinant	100356	JAK2 (JH2 Domain), His-Avi-Tag, Biotin-Labeled Recombinant	79074
FGFR2, GST-tag Recombinant	40211	JAK2 (V617F) (JH1, JH2 Domain), GST-Tag, Avi-Tag, Biotin-Labeled (Dephosphorylated) Recombinant	79115
FGFR3 (397-806(end)) (K650M) His-Tag (Dephosphorylated) Recombinant	100909	JAK2 (V617F) (JH2 Domain), His-Avi-Tag, Biotin-Labeled Recombinant	79075
FGFR3 (397-806(end)), His-Avi-Tag, Biotin-labeled Recombinant	100918	JAK2 (V617F), FLAG-Avi-Tag, Biotin-Labeled (Dephosphorylated) Recombinant	79426
FGFR3 (447-761) (K650M), His-Tag (Dephosphorylated) Recombinant	100783	JAK2 (V617F, W659A, W777A, F794H), His-Avi-Tag, Biotin-Labeled Recombinant	79498
FGFR3 (447-761), His-Avi-Tag, Biotin-labeled Recombinant	100613	JAK2 (V617F, Y1007F, Y1008F)- (GSSG)8-EPOR Recombinant	100709
FGFR3 (CD333), GST-tag Recombinant	40212	JAK2 (W659A, W777A, F794H) (JH2 Domain), His-Avi-Tag, Biotin-Labeled Recombinant	79463
FGFR3 (K650E), His-Tag (Dephosphorylated) Recombinant	100782	JAK2, FLAG-Avi-Tag, Biotin-Labeled (Dephosphorylated) Recombinant	79493
FGFR3 (L496V), His-Tag Recombinant	100142	JAK3 (JH2 Domain), His-Tag Recombinant	101270
FGFR3 (N540K) His-Tag (Dephosphorylated) Recombinant	100907	JAK3, His-tag Recombinant	40452
FGFR3 (N540K) His-Tag (Dephosphorylated), Biotin-Labeled Recombinant	100921	LCK, GST-tag Recombinant	40470
FGFR3 (V443L), His-Tag Recombinant	100138	LTK, GST-Tag Recombinant	101357
FGFR3 (V443M), His-Tag Recombinant	100140	LYN A, GST-tag Recombinant	40471
FGFR3 (V555F), His-Tag (Dephosphorylated) Recombinant	100657	LYNB, GST-tag Recombinant	40472
FGFR4, GST-tag Recombinant	40213	Mouse EGFR, FLAG-Tag Recombinant	40195
FGR, GST-tag Recombinant	40422	Mouse EPHB1, GST-tag Recombinant	40199
FLT1, His-tag Recombinant	40223	Mouse FER, GST-tag Recombinant	40419
Flt3, His-tag Recombinant	40225	Mouse ITK, GST-tag Recombinant	40446
FRK, GST-tag Recombinant	40424	MUSK, His-tag Recombinant	40079
FYN, FLAG-Tag Recombinant	40433	Neuropilin-1, Avi-His-Tag Recombinant	100870
HCK, GST-tag Recombinant	40440	Neuropilin-1, Avi-His-Tag, Biotin-labeled, HiP™ Recombinant	100911
HER2, GST-Tag Recombinant	40230	PDGFRa, GST-tag Recombinant	40261
HER3 (E928G), GST-Tag Recombinant	101645	PDGFRa, Mouse, GST-tag Recombinant	40260
HER3, GST-Tag Recombinant	101646	PDGFRα (D842I), GST-Tag Recombinant	100202
HER3, His-Tag Recombinant	101647	PDGFRα (D842V), GST-Tag Recombinant	79633
HER4, GST-tag Recombinant	40232	PDGFRα (D842Y), GST-Tag Recombinant	100201
IGF1R, His-Tag Recombinant	101217	PDGFRβ, His-tag Recombinant	40263
Insulin receptor (INSR), GST-tag Recombinant	40241	PKMYT1, GST-Tag Recombinant	101569
IRR, GST-tag Recombinant	40242	PYK2, His-tag Recombinant	40480
ITK, GST-tag Recombinant	40445	Rat ITK, GST-tag Recombinant	40447
JAK1 (JH2 Domain), His-Tag Recombinant	101271	Rat MET, GST-tag Recombinant	40228
JAK1, GST-tag Recombinant	40449	Ret, GST-tag Recombinant	40267
JAK2 (JH1 domain), His-Tag Recombinant	40450	RON, GST-tag Recombinant	40292
JAK2 (JH1, JH2 domain), GST-Tag, Avi-Tag, Biotin (Dephosphorylated) Recombinant	79495	ROR1 CHO Recombinant Cell Line (High, Medium, or Low Expression)	79609
JAK2 (JH1, JH2 domain), His-GST-Tags Recombinant	40451	ROR1, Fc-Fusion (IgG1), Avi-Tag Recombinant	79481

Tyrosine Kinases	Catalog#	Serine-Threonine Kinases	Catalog#
ROR1, Fc-Fusion (IgG1), Avi-Tag, Biotin-Labeled Recombinant	79482	AKT1, Active Recombinant	40003
ROR1, Fc-Fusion (IgG1)-Avi-Tag, PE-labeled Recombinant	100995	AKT1, Inactive, His-tag Recombinant	40000
ROR1, GST-tag Recombinant	40396	AKT2, Active, His-tag Recombinant	40011
ROR2, Fc-Fusion (IgG1), Avi-Tag HiP™ Recombinant	100029	AKT2, Inactive, His-tag Recombinant	40001
ROR2, Fc-Fusion (IgG1), Avi-Tag, Biotin-Labeled HiP™ Recombinant	100046	AKT3, His-tag Recombinant	40012
ROR2, GST-tag Recombinant	40296	ALK1, GST-tag Recombinant	40018
ROS1 (G2032R), GST-Tag Recombinant	101640	ALK2 (R206H), GST-Tag Recombinant	100714
ROS1 (G2101A), GST-Tag Recombinant	101641	ALK2, FLAG-Tag, Avi-Tag, Biotin-Labeled Recombinant	100176
ROS1, GST-His-tag Recombinant	40268	ALK2, GST-tag Recombinant	40019
SRC, GST-tag Recombinant	40483	ALK4, GST-tag Recombinant	40020
SRC, His-Tag Recombinant	40484	AMPK (A1/B1/G1), His-tags Recombinant	40025
SYK, Catalytic, GST-Tag Recombinant	40487	AMPK (A1/B1/G2), His-tag Recombinant	40701
SYK, Full length, GST-tag Recombinant	40485	AMPK (A1/B1/G2), His-tags Recombinant	40021
Tie2, GST-tag Recombinant	40370	AMPK (A1/B1/G3), His-tag Recombinant	40702
Tie2, His-tag Recombinant	40270	AMPK (A1/B1/G3), His-tags Recombinant	40022
TNK1, GST-Th-Tag Recombinant	80019	AMPK (A1/B2/G1), His-tag Recombinant	40703
TPM3-TRKA Mutant, GST-Tag Recombinant	79080	AMPK (A1/B2/G1), His-tags Recombinant	40023
TRKA, GST-tag Recombinant	40280	AMPK (A2/ B1/G1), His-tag Recombinant	40704
TRKB, GST-tag Recombinant	40281	AMPK (A2/B1/G1), His-tags Recombinant	40024
TRKC (G623E) Mutant, Active) Recombinant	40204	AMPK (A2/B2/G1), His-tag Recombinant	40705
TRKC (G623R L686M),Mutant, Active Recombinant	40215	AMPK (A2/B2/G1), His-tags Recombinant	40026
TRKC (G623R) Mutant, Active) Recombinant	40203	AMPK (A2/B2/G2), His-tag Recombinant	40706
TRKC (L686M), Mutant, Active Recombinant	40216	AMPK (A2/B2/G2), His-tags Recombinant	40027
TRKC, GST-tag Recombinant	40282	aRAF, GST-Tag, His-Tag Recombinant	40010
TXK, GST-tag Recombinant	40486	Ask1, GST-tag Recombinant	40028
TYK2 (JH2 domain), FLAG-Tag Recombinant	100523	ATM, GST-tag Recombinant	101486
TYK2, GST-Tag Recombinant	100400	ATR, GST-Tag Recombinant	101485
Tyk2, His-tag Recombinant	40285	Aurora A Protein Kinase, His-Tag (HEK293-derived) Recombinant	100112
TYRO3, GST-tag Recombinant	40293	Aurora A Protein Kinase, His-Tag (Sf9-derived) Recombinant	40004
VEGFR2 (KDR) Kinase Assay Kit	40325	AURORA C, GST-tag Recombinant	40178
VEGFR2 (KDR), GST-Tag Recombinant	40301	Aurora Kinase B, GST-Tag, His-Tag Recombinant	40002
VEGFR2 / NFAT Reporter – HEK293 Recombinant Cell Line	79387	BCKDK, GST-Tag Recombinant	101115
VEGFR3 (FLT4), GST-tag Recombinant	40302	BRAF (V600E), GST-His-Tag Recombinant	40533
Wee1 Assay Kit	79909	BRAF, GST-tag Recombinant	40065
Wee1, FLAG-Tag Recombinant	100154	BRAF, His-Tag (High Expression) Recombinant	41237
Wee1, GST-Th-Tag Recombinant	40412	BRAF/p50, FLAG-tag Recombinant	40005
Yes1, GST-tag Recombinant	40488	BRSK2, His-tag Recombinant	40016
ZAP70, GST-tag Recombinant	40490	c-RAF(Y340D, Y341D), GST-Tag Recombinant	40008

Serine-Threonine Kinases	Catalog#	Serine-Threonine Kinases	Catalog#
CAMK1, Mouse, GST-tag Recombinant	40030	CDK6/CyclinD3, His-tags Recombinant	40206
CAMK1 β , Mouse, GST-tag Recombinant	40031	CDK7/CyclinH1/MNAT1, His-tags Recombinant	40098
CAMK1 γ , GST-tag Recombinant	40036	CDK8/Cyclin C, GST-tags Recombinant	100433
CAMK1 γ , GST-tag Recombinant	40032	CDK9/CyclinK, GST-tag Recombinant	40106
CAMK1 δ , GST-tag Recombinant	40037	CDK9/CyclinT1, GST-Tag Recombinant	40307
CAMK2 α , GST-tag Recombinant	40038	CHK1, GST-tag Recombinant	40039
CAMK2 β , His-tag, GST-tag Recombinant	40041	CHK2, His-tag Recombinant	40040
CAMK2 γ , GST-tag Recombinant	40042	CK1 alpha, GST-Tag Recombinant	79346
CAMK2 δ , GST-tag Recombinant	40043	CK1 delta, GST-Tag Recombinant	79347
CAMK2 δ , GST-tag Recombinant	41109	CK1 epsilon, GST-Tag Recombinant	79349
CAMK4, GST-tag Recombinant	40029	CK1 gamma, GST-Tag Recombinant	79348
CAMKK1, GST-tag Recombinant	40044	CK2a1, GST-tag Recombinant	40045
CAMKK2, GST-tag Recombinant	40046	Cot (MAP3K8), GST-His-Tags Recombinant	40050
Casein Kinase 1 α 1 Recombinant	40310	DAPK1, GST-tag Recombinant	40051
CDC7/DBF4 Complex Recombinant	100538	DAPK2, GST-tag Recombinant	40049
CDK1/CyclinA2, GST-tag Recombinant	40100	DAPK3, GST-tag Recombinant	40052
CDK1/CyclinB1, GST-Tag Recombinant	40454	DCAMKL1, GST-tag Recombinant	40047
CDK11A/CyclinD3, GST-tags Recombinant	100595	DCAMKL2, GST-tag Recombinant	40048
CDK12 (696-1082)/CyclinK, GST-Tags, Recombinant	100998	DLK, GST-Tag Recombinant	79345
CDK12/Cyclin K, GST-Tags Recombinant	101235	DMPK, GST-tag Recombinant	40054
CDK13/Cyclin K, GST-Tags Recombinant	101128	DRAK2 Recombinant	71225
CDK14/Cyclin Y, GST-tag Recombinant	100602	DRAK2, GST-Tag Recombinant	71224
CDK16/Cyclin Y, GST-tags Recombinant	100604	DYRK1B, GST-tag Recombinant	100646
CDK17/Cyclin Y, GST-tags Recombinant	100606	EEF2K, GST-tag Recombinant	40057
CDK18/Cyclin Y, GST-tags Recombinant	100608	EIF2AK2, GST-tag Recombinant	40058
CDK19/Cyclin C, GST-tags Recombinant	100593	EIF2AK3, GST-tag Recombinant	40059
CDK2 (no tag)/CyclinA2, His-GST-tags Recombinant	41101	ERK1 Recombinant	40055
CDK2/CyclinA2, GST-tag Recombinant	40101	ERK2, GST-tag Recombinant	40299
CDK2/CyclinE1, GST-tag Recombinant	40102	ERK3, GST-Tag Recombinant	100366
CDK20, GST-tag (mouse) Recombinant	100609	ERK4, GST-Tag Recombinant	100363
CDK3/CyclinE1, GST-tag Recombinant	40103	ERK7, GST-Tag (Mouse) Recombinant	100365
CDK4(EE,T172A)/Cyclin D1, His-tag Recombinant	40094	ERN1 (IRE1), GST-tag Recombinant	40306
CDK4, FLAG-Tag Recombinant	100052	GCK (MAP4K2), GST-tag Recombinant	40107
CDK4/CyclinD3, GST-His-Tag Recombinant	40104	GRK2, GST-tag Recombinant	40060
CDK5/p25, GST-tag Recombinant	40105	GRK5, GST-tag Recombinant	40063
CDK5/p35, GST-tag Recombinant	40095	GRK6, GST-tag Recombinant	40066
CDK6, His-Tag Recombinant	100031	GRK7, GST-tag Recombinant	40108
CDK6/CyclinD1, His-tag, GST-tag Recombinant	40097	GSK3 α Recombinant	40006

Serine-Threonine Kinases	Catalog#	Serine-Threonine Kinases	Catalog#
GSK3 β , GST-tag, His-tag Recombinant	40007	MARK3, GST-tag Recombinant	40120
GSK α , GST-Tag, His-tag Recombinant	100814	MEKK2, GST-tag Recombinant	40122
HGK (MAP4K4), GST-tag Recombinant	40109	MEKK3, GST-tag Recombinant	40124
HIPK1, GST-tag Recombinant	40179	MELK, GST-tag Recombinant	40708
HIPK3, His-tag Recombinant	40110	MINK1, GST-tag Recombinant	40126
HIPK4, GST-tag Recombinant	40111	MLCK, GST-tag Recombinant	40127
Human IRE1, His-Avi-tag Recombinant	40709	MLK1, GST-tag Recombinant	41102
Human/Mouse ERK2 (K52R), Inactive, His-tag Recombinant	40056	MLK2, GST-tag Recombinant	41103
ICK, GST-tag Recombinant	40112	MLK3, GST-tag Recombinant	41104
IKK β , GST-Tag Recombinant	40304	MLK4, GST-tag Recombinant	41105
IRAK1, His-Tag Recombinant	40202	MNK1 (T385D), GST-tag Recombinant	40078
IRAK2, GST-tag Recombinant	40087	MNK2, GST-tag Recombinant	40128
IRAK4, GST-tag Recombinant	40064	Mouse AURORA A, GST-tag Recombinant	40177
JNK1- β 1(K55M), Kinase Deficient, GST-tag Recombinant	40871	Mouse Cot (MAP3K8), His-GST-tags Recombinant	41050
JNK2, GST-Tag Recombinant	40113	Mouse JNK1, GST-tag Recombinant	40071
KHS1 (GCKR), GST-tag Recombinant	40115	Mouse PAK3, GST-tag Recombinant	40147
LATS2, GST-Tag Recombinant	100353	MRCK α , GST-tag Recombinant	40129
LKB1/MO25/STRAD Complex Recombinant	40069	MRCK β , GST-tag Recombinant	40130
Lok1 (Stk10), His-tag Recombinant	40074	MSK1, GST-Tag Recombinant	40131
LRRK2 (D1994A), GST-Tag Recombinant	40831	MSSK1 (SRPK3), GST-tag Recombinant	40132
LRRK2 (G2019S), GST-Tag Recombinant	40832	MST3, GST-tag Recombinant	40133
LRRK2 (G2385R), GST-Tag Recombinant	40833	MST4, GST-tag Recombinant	40134
LRRK2 (I2020T), GST-Tag Recombinant	40834	mTOR/Raptor/mLST8 Complex, FLAG-Tag, His-Tag (Human) Recombinant	40300
LRRK2 (R1441C), GST-Tag Recombinant	40835	MYLK2, His-tag Recombinant	40135
LRRK2 (R1441G), GST-Tag Recombinant	40836	MYLK3, GST-tag Recombinant	40136
LRRK2 (R1441H), GST-Tag Recombinant	40837	MYO3 β , GST-tag Recombinant	40137
LRRK2 (Y1699C), GST-Tag Recombinant	40838	NDR, GST-tag Recombinant	40138
LRRK2 (Y1699G), GST-Tag Recombinant	40839	NEK11, GST-tag Recombinant	40139
LRRK2, GST-Tag Recombinant	40842	NEK2 Recombinant	40009
MAP4K3 (GLK), GST-tag Recombinant	100624	NEK3, GST-tag Recombinant	40140
MAPK10 (JNK3), GST-tag Recombinant	40092	NEK6, His-tag Recombinant	40014
MAPK14 (p38 α), His-Tag, Active Recombinant	40243	NEK7, GST-tag Recombinant	40141
MAPK14, Inactive, GST-tag Recombinant	40091	NEK7, His-Tag Recombinant	100476
MAPKAPK2, His-tag Recombinant	40116	NEK9, GST-tag Recombinant	40142
MAPKAPK2, Inactive, GST-Tag Recombinant	40088	NIK, GST-tag Recombinant	40090
MAPKAPK3, GST-tag Recombinant	40117	NUAK1, GST-Tag	101475
MAPKAPK5, GST-tag Recombinant	40118	NUAK2 (K81R), Inactive, GST-Tag	101474
MARK1, GST-tag Recombinant	40119	NUAK2, GST-Tag	101476

Serine-Threonine Kinases	Catalog#	Serine-Threonine Kinases	Catalog#
p38 α , GST-tag Recombinant	40070	PKD2, GST-tag Recombinant	40168
p38 β , GST-tag Recombinant	40143	PKG1 α , His-tag Recombinant	40082
p38 γ (p38 γ), GST-tag Recombinant	40144	PKG1 β , His-tag Recombinant	40083
p38 δ (p38 δ), GST-tag Recombinant	40145	PKN1 (PRK1), GST-Tag Recombinant	79678
p70S6K (S6K1), GST-tag Recombinant	40062	PKN2 (PRK2), GST-tag Recombinant	40169
p70S6Kb, GST-tag Recombinant	40146	PKN3 (PRK3), GST-tag Recombinant	101642
PAK1 Recombinant	40072	PLK1 Polo Box Domain, GST-Tag Recombinant	50301
PAK2 Recombinant	40073	PLK1, His-tag Recombinant	40033
PAK4 Recombinant	40076	PLK2, GST-tag Recombinant	40034
PAK5 Recombinant	40077	PLK3 Polo Box Domain, MBP-tag, His-tag Recombinant	50302
PAK6 Recombinant	40081	PLK3, His-tag Recombinant	40035
PAK7, GST-tag Recombinant	40148	PLK4, GST-tag Recombinant	40236
PASK, GST-tag Recombinant	40149	PRKG1, GST-tag Recombinant	40175
PDHK1, GST-Tag Recombinant	40084	PRKG2, GST-tag Recombinant	40170
PDK1, GST-tag Recombinant	40080	PRKX, GST-tag Recombinant	40171
PDK3, GST-Tag Recombinant	100927	RBD-c-RAF, GST-Tag Recombinant	100519
PFKFB3, His-tag Recombinant	71089	RIPK1, GST-Tag (Mouse) Recombinant	100340
PHKG1, GST-tag Recombinant	40150	RIPK1, GST-Th-Tag Recombinant	40371
PHKG2, GST-tag Recombinant	40151	RIPK2, GST-tag Recombinant	40173
PIM1, GST-tag Recombinant	41107	RIPK3, GST-Tag Recombinant	79710
PIM2, GST-tag Recombinant	40153	RIPK4, GST-Tag Recombinant	79712
PIM3, Active, GST-tag Recombinant	41108	RIPK5, GST-Tag Recombinant	79713
PKA α , GST-tag Recombinant	40154	ROCK1, GST-tag Recombinant	40085
PKA α , His-Tag Recombinant	79044	ROCK2, GST-tag Recombinant	40086
PKA β , GST-tag Recombinant	40155	RSK1, GST-tag Recombinant	40172
PKA γ , GST-tag Recombinant	40156	RSK2, GST-tag Recombinant	40181
PKC ι/λ , GST-tag Recombinant	40015	RSK3, GST-tag Recombinant	40182
PKC α (PKC α), GST-tag Recombinant	40157	RSK4, GST-tag Recombinant	40183
PKC β I (PKC β 1), GST-tag Recombinant	40158	SGK1, GST-tag Recombinant	40271
PKC β II (PKC β 2), GST-tag Recombinant	40159	SGK2, GST-tag Recombinant	40272
PKC γ (PKC γ), GST-tag Recombinant	40160	SGK3, GST-tag Recombinant	40273
PKC δ (PKC δ), GST-tag Recombinant	40161	SIK (SNF1LK), His-tag Recombinant	40274
PKC ϵ (PKC ϵ), GST-tag Recombinant	40162	SIK2, GST-tag Recombinant	40264
PKC ζ (PKC ζ), GST-tag Recombinant	40163	SLK, GST-tag Recombinant	40275
PKC η (PKC η), GST-tag Recombinant	40164	SOK1, GST-tag Recombinant	40276
PKC θ (PKC θ), GST-tag Recombinant	40165	SRPK1, GST-tag Recombinant	40277
PKC μ (PKC μ), GST-tag Recombinant	40166	SRPK2, GST-tag Recombinant	40278
PKC ν (PKC ν), GST-tag Recombinant	40167	STK19, GST-Tag Recombinant	100910

Serine-Threonine Kinases	Catalog#	Kinase Inhibitors	Catalog#
STK3(MST2), GST-tag Recombinant	40013	CHIR-99021 (CT99021) HCl	27615-2
STK33, GST-tag Recombinant	40093	CHIR-99021 (CT99021) HCl	27615-3
STK4(MST1), GST-tag Recombinant	40017	Doramapimod	27034
TAK1-TAB1, GST-tag Recombinant	40279	Fasudil	27029
TAOK1, GST-tag Recombinant	40283	GDC-0941	27000
TAOK2, GST-tag Recombinant	40284	Gefitinib	27032
TBK1, GST-Tag Recombinant	40286	Geldanamycin	27008
TGFβR1 (ALK5) Kinase Assay Kit	78819	HA-1077	27030
TGFβR1, GST-Tag Recombinant	101575	K252a	27033
TGFβR1, Fc Fusion (IgG1) Avi-Tag, Biotin Labeled Recombinant	100645	LY-294002	27038
TGFβR1, Fc fusion, Avi-Tag Recombinant	100644	PD 173074	27056
TGFβR2, Fc Fusion, Avi-tag (Mouse) Recombinant	100676	PI-103	27502-1
TGFβR2, Fc Fusion, Avi-tag Recombinant	100628	PI-103	27502-2
TGFβR2, Fc Fusion, Avi-tag, Biotin-labeled (Mouse) Recombinant	100677	PP242	27063
TGFβR2, Fc Fusion, Avi-tag, Biotin-labeled HiP™ Recombinant	100629	Rapamycin	27062
TGFβR2, GST-tag Recombinant	40707	Roscovitin	27040
TLK2, GST-tag Recombinant	40287	Ruxolitinib Phosphate	27059
TNIK, GST-Tag Recombinant	11708	SGI-1776 free base	27651-2
TSSK1B, GST-tag Recombinant	40289	SGI-1776 free base	27651-3
TSSK2, GST-tag Recombinant	40290	SGI-1776 free base	27651-1
TTBK1, GST-Tag, His-Tag Recombinant	40309	SMI-4a	27774-2
ULK1, FLAG-tag Recombinant	40099	SMI-4a	27774-1
ULK2, GST-tag Recombinant	40294	Sorafenib Tosylate	27014
ULK3, His-tag Recombinant	40295	Staurosporine	27002
VRK1, GST-tag Recombinant	40397	Temsirolimus	27024
WNK1, GST-Tag Recombinant	100971	Tofacitinib	27037
WNK2, GST-Tag Recombinant	100972	U0126	27012
WNK3, GST-Tag Recombinant	100973	Wortmannin	27031
WNK4, GST-Tag (Mouse) Recombinant	100974		
ZAK, GST-tag (Variant 2) Recombinant	40297		

Kinase Inhibitors	Catalog#	Kinase Substrates	Catalog#
A-769662	27057	14-3-3 alpha/beta Protein, His-tag (Human) Recombinant	79023
Afatinib	27009	14-3-3 alpha/beta Protein, His-tag (Mouse) Recombinant	79024
Axitinib	27064	14-3-3 epsilon Protein, His-tag (Human) Recombinant	79025
Cediranib	27036	14-3-3 epsilon Protein, His-tag (Mouse) Recombinant	79026
CHIR-99021 (CT99021)	27614-3	14-3-3 sigma Protein, His-tag (Human) Recombinant	79037
CHIR-99021 (CT99021)	27614-2	14-3-3 theta Protein, His-tag (Human) Recombinant	79038
		14-3-3 zeta Protein, His-tag (Human) Recombinant	79039
		14-3-3 zeta Protein, His-tag (Mouse) Recombinant	79040

Kinase Substrates	Catalog#
AKT1, Inactive, His-tag Recombinant	40000
ATF2, GST-Tag Recombinant	40520
c-Myc, His-tag Recombinant	40453
Calmodulin, His-tag Recombinant	81152
CERK Substrate	40619
CERK Substrate	40618
Cofilin 1, GST-tag Recombinant	40525
eIF4E, GST-tag Recombinant	40530
EIF4EBP1, His-tag Recombinant	40510
Histone H3, Full Length, His-tag Recombinant	52027
Histone H3, Full Length, His-tag Recombinant	52023
Human/Mouse ERK2 (K52R), Inactive, His-tag Recombinant	40056
IRS1-tide	79519
JNK1- β 1(K55M), Kinase Deficient, GST-tag Recombinant	40871
MAPK14, Inactive, GST-tag Recombinant	40091
MBP, His-Tag Recombinant	40535
MEK1 (K97R), Inactive, His-tag Recombinant	40075
Mouse LC20, GST-tag Recombinant	50127
p53 (Y220C), GST-Tag Recombinant	101610
p53, GST-Tag Recombinant	40511
PI-3 Kinase Lipid Substrate	40560
RB, GST-tag Recombinant	40595
STAT5 Peptide	79864



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