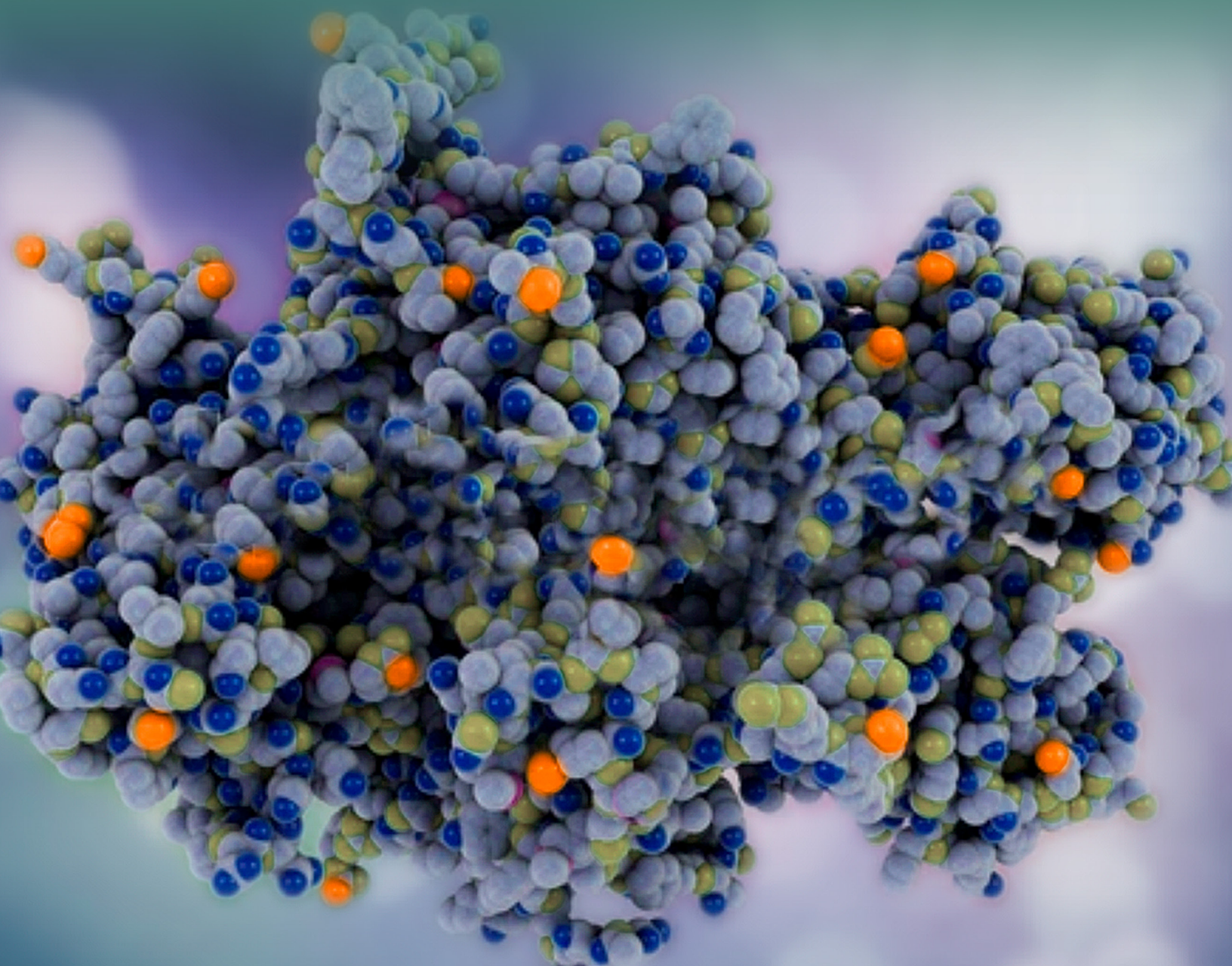
DiscoverX

# PRODUCT SOLUTIONS FOR KINASES

## Enabling Drug Discovery and Development Programs

Comprehensive Offering of Cellular Assays and Recombinant Enzymes for Drug Discovery Screening and Lead Optimization



# Comprehensive Kinase Solutions to Accelerate Your Kinase Drug Discovery

**The Largest Commercial Offering of Optimized Kinase Enzymes and Cell-Based Assays for Drug Discovery Target Characterization, Screening and Profiling, and Lead Optimization Programs**

Whether you are performing a biochemical enzymatic or functional cell-based assay screen, Eurofins DiscoverX is your drug discovery and development partner. As the new home of the original Millipore (Upstate) kinase enzyme portfolio covering over 70% of the human kinome combined with the clinically-proven PathHunter® mechanism-of-action (MOA)-reflective, cell-based assay platform, Eurofins DiscoverX has the kinase solutions you need to accelerate your drug discovery programs.

## RECOMBINANT KINASE ENZYMES HIGHLIGHTS

Access the most extensive commercial offering of high-quality recombinant active, inactive, and mutant kinases for screening and profiling potential drugs. Available in multiple pack sizes, including bulk sizing, to provide you with scalable options. Whether you want to perform all of your screening in-house or with KinaseProfiler services, you will receive the quality and confidence that comes with 100s of millions of data points generated over the past 30 years.

- Comprehensive Portfolios – Over 490 high quality active, inactive, and mutant kinase enzymes, including many exclusive enzymes such as the PIKK group (ATM, ATR, mTOR, and DNA-PK)
- Optimal Expression Systems – All recombinant kinases are produced in their optimal system (insect, mammalian, or bacterial) to give the correct characteristics for activity and inhibition
- High Quality – Rigorous quality control procedure ensures the highest purity (>95%), specific activity, and lot-to-lot consistency

## CELL-BASED KINASE ASSAY TYPES AND HIGHLIGHTS

MOA-reflective cell-based kinase assays for target characterization to lead optimization, and through clinical development to QC lot release.

### MOA-REFLECTIVE PathHunter CELL-BASED KINASE ASSAYS

Cell-based assays for analyzing ligand activation, receptor dimerization and internalization, SH2-recruitment, and screening of novel kinase inhibitors for receptor tyrosine kinases (RTK) and cytokine receptors. These assays provide cellular context to kinase activation to identify and profile novel therapeutic compounds and biologics.

- Broadly Applicable – Identify various ligands including anti-receptor, anti-ligand, or activating antibodies; non-ATP pocket binders (allosteric modulators); ligand binding inhibitors (ATP-competitors); or dimerization inhibitors
- Accurate Reproducibility – Superior quality, reproducible data with large assay windows and robust performance
- East-to-Use – Simple, homogeneous protocols with a chemiluminescent output that can be read on any benchtop luminometer.

## CELL-BASED KINASE ASSAY TYPES AND HIGHLIGHTS

### InCELL CELL-BASED TARGET ENGAGEMENT ASSAYS

InCELL Hunter™ and InCELL Pulse™ cellular compound-target engagement assays provide the ability to confirm compound cell entry and drug-target binding to intracellular targets or monitor drug-mediated protein degradation to assess compound efficacy and confirmation of MOA. The InCELL assay platform is ideal for screening inhibitors, validating hits identified in biochemical assays, measuring cellular $EC_{50}$ values, and ranking compounds in a native cellular environment.

- Flexible – Cellular, target engagement assays available as cell lines, ready-to-assay kits, or custom
- Diverse – Easily measure compound entry and drug-target binding, or accurately screen compounds in a high throughput format
- Simple – Binding assays that do not require custom chemical tracers, antibody reagents, or mass spec

### SPRINTer™ CELL-BASED TARGETED PROTEIN DEGRADATION ASSAYS

SPRINTer targeted protein degradation assays are for rapid screening of small molecule therapeutics and quantifying changes in endogenous protein levels in disease-relevant cell models. Detect protein turnover induced by targeted degrader molecules, such as PROTAC®'s (Proteolysis Targeting Chimeras) or molecular glues, with higher sensitivity and more rapid kinetics than phenotypic endpoint assays (e.g. cell proliferation). Discover new molecular entities that modulate the endogenous levels of targeted proteins by using both SPRINTer platform with InCELL Pulse™ target engagement assays.

- Homogeneous – Simple, scalable, and homogeneous no-wash protocol amenable to high-throughput screening (HTS) formats for increased efficiency
- Robust & Highly Sensitive – Accurately detect target protein turnover at micro/nanomolar sensitivities
- Rapid Results – Obtain results in as little as 5 hours to select the right candidate and accelerate development programs
- Optimized Signal – EFC detection method features lysine-free tags to minimize artifacts

## ADP ACCUMULATION ASSAYS FOR KINASE PROFILING AND HTS APPLICATIONS

Homogeneous activity-based ADP accumulation assays are antibody-free screening; ideal for kinase profiling, high throughput screening (HTS), and identifying and characterizing phosphotransferase activity. In contrast to standard assays that rely on antibody detection of a phosphoepitope or monitoring ATP depletion as the result of kinase activity, these assays are gain-of-signal assays that generate a positive readout in direct proportion to ADP accumulation as a result of substrate phosphorylation activity.

- Ideal Assays – Kinetic and end-point modes ideal for inhibitor screening and profiling
- Flexible – Robust fluorescence readout allows for flexible assay read time
- Simple – Easy-to-use and universal for any phosphotransferases, such as ATPases, UTPases, and GTPases

## CUSTOM KINASE DEVELOPMENT CAPABILITIES

When an off-the-shelf option is unavailable, consider Eurofins DiscoverX custom cell lines, recombinant proteins, and assays optimized to your requirements.

- Development Expertise – Decades of cell-based assay development, cell line engineering, and recombinant enzyme development expertise
- Cell Line Engineering Capability – Exogenous expression approaches (constitutive vs inducible) or gene editing (e.g. KO/KI with CRISPR/Cas9)
- Collaborative – Consultative assay development with status updates through a dedicated project manager
- Complete Solution – Customized assay development with screening and profiling services within the same team

Learn more about Eurofins DiscoverX customer capabilities at discoverx.com/CAD

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## KINASE SCREENING AND PROFILING SERVICES

Screen your compounds against the broadest panel of wild-type and mutant human kinases to determine your compound potency and selectivity, and to advance your hits with the highest probability of being clinically effective and safe. Eurofins Discovery Services has over two decades of kinase screening and profiling experience with over 32,000 reports delivered screening for >1M kinase candidate compounds. With >1000 biochemical, including binding, activity, and cell-based kinase assays available, Eurofins Discovery Services partners with you to confidently confirm your hits.

- Comprehensive – Over 490 active-site directed competitive ligand binding assays (KINOMEscan® Technology) and 422 activity functional-based assays (KinaseProfiler® Technology) available to confirm activity assay hits
- Conformational – Confidently confirm your results across multiple biochemical and cellular orthogonal platforms
- Flexible – Customize panels specifically to your needs and modify as your program progresses

Learn more about kinase screening and profiling services at eurofinsdiscoveryservices.com.

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## PRODUCT TARGET LIST

The following tables indicates the available kinase **products**. For kinase services, please refer to our services website. The tables are organized by product type and includes all available kinase related toolbox products, biochemical kits, cell-based assays, and recombinant proteins. The cell-based assays section is organized by target and includes the product format (cell line, eXpress kit, bioassay kit, expression vector, and recombinant protein) indication. The recombinant proteins section is organized by target and includes product names (with reference of active, activated, inactive, or mutant state), expression system, tag, species, molecular weight, and catalog number.

**Eurofins Discovery Websites**

**Products** discoverx.com/kinases

**Services** eurofinsdiscoveryservices

Please refer to our websites for detailed information and the most update-to-date list of products currently available.

# Kinase Products Target List

2024

## Toolbox Products Parental Cell Lines, Starter Kit, and Expression Vectors

| Application | Expressed Protein | Catalog # | Product Name | Size | Target |
|---|---|---|---|---|---|
| Target Engagement Assay Development | Intracellular Targets | 94-4007S | InCELL Pulse™ Target Engagement Starter Kit | 400 dp (4 X 96-well) | Kinases |
| Monitor SH2 Recruitment | mPLCG1(SH2)-EA | 93-1124C3 | PathHunter® U2OS mPLCG1(SH2)-EA Parental Cell Line | 2 vials | RTKs |
| Monitor SH2 Recruitment | SHC1(SH2)-EA | 93-1123C3 | PathHunter® U2OS SHC1-EA Parental Cell Line | 2 vials | RTKs |
| Translocation to the Membrane | MEM-EA | 93-1101C3 | PathHunter® U2OS MEM-EA Parental Cell Line | 2 vials | RTKs |
| Translocation to the Endosome | ENDO-EA | 93-1102C3 | PathHunter® U2OS ENDO-EA Parental Cell Line | 2 vials | RTKs |
| Cell-based Assay Development | Intracellular Targets | Varies | ProLabel® & ProLink™ Expression Vectors | 10 µg | RTKs, CTKs |
| Cell-based Assay Development | Intracellular Targets | Varies | InCELL Pulse™ Expression Vectors | 10 µg | Kinases |

## ADP Accumulation Assays

| Product Type | Target | Base Catalog # | Product Name | Size | Read-Out |
|---|---|---|---|---|---|
| Biochemical Kit | Any Kinase, ATPase, GTPase or UTPase | 90-0083 | ADP Hunter™ Plus | Multiple | Fluorescent |
| Biochemical Kit | | 90-0071 | ADP Quest™ | Multiple | Fluorescent |

## PathHunter® and InCELL Cell-Based Assays for RTKs, CTKs and Kinases

** See last table for full recombinant protein list*

| Application | Target | Kinase Type | Cell Line | eXpress Kit | Bioassay Kit | Expression Vector | Recombinant Protein* |
|---|---|---|---|---|---|---|---|
| Target Engagement | AAK1 | Kinase | | | | ● | |
| Target Engagement | ABL1 | Kinase | | ● | | ● | ● |
| Target Engagement | ABL1(T315I) | Kinase | | | | ● | ● |
| Target Engagement | ACVR1 | Kinase | | | | ● | |
| Dimerization | ACVR1/ACVR2 | RTK | ● | | | ● | |
| Dimerization | ACVR1B/BMPR2 | RTK | ● | ● | | ● | |
| Dimerization | ACVR1C/ACVR2 | RTK | ● | ● | | ● | |
| Dimerization | ACVR1C/ACVR2B | RTK | ● | ● | | ● | |
| Dimerization | ACVRL1/ACVR2 | RTK | ● | ● | | ● | |
| Dimerization | ACVRL1/ACVR2B | RTK | ● | ● | | ● | |
| Dimerization | ACVRL1/BMPR2 | RTK | ● | ● | | ● | |
| Target Engagement | AKT1 | Kinase | | | | ● | ● |
| Target Engagement | AURKA | Kinase | | | | ● | |
| Functional | AXL | RTK | ● | | | ● | ● |
| Activity, Target Engagement | BLK | CTK | ● | ● | | ● | ● |
| Dimerization | BMPR1A/ACVR2 | RTK | ● | ● | | ● | |
| Dimerization | BMPR1A/ACVR2B | RTK | ● | | | ● | |
| Dimerization | BMPR1A/BMPR2 | RTK | ● | ● | | ● | |
| Dimerization | BMPR1B/ACVR2A | RTK | ● | ● | | ● | |
| Dimerization | BMPR1B/ACVR2B | RTK | ● | | | ● | |
| Dimerization | BMPR1B/BMPR2 | RTK | ● | | | ● | |
| Target Protein Degradation | BRAF(V600E) | Kinase | ● | ● *New* | | | |
| Target Engagement | BRAF | Kinase | | | | ● | ● |
| Target Engagement | BTK | Kinase | ● | ● | | ● | ● |
| Target Protein Degradation | BTK | Kinase | ● | ● *New* | | | |
| Target Engagement | BUB1 | Kinase | | | | ● | |
| Target Engagement | CAMK2A | Kinase | | | | ● | ● |
| Target Protein Degradation | CDKN1A (p21) | Kinase | ● | ● *New* | | | |
| Functional | cINSRa | RTK | ● | ● | | ● | |
| Functional | cINSRb | RTK | ● | ● | | ● | |
| Functional | c-KIT | RTK | ● | ● | | ● | ● |
| Target Engagement | CLK1 | Kinase | ● | ● | | ● | ● |
| Target Engagement | CLK2 | Kinase | ● | ● | | ● | ● |
| Functional | c-MET | RTK | | | | ● | ● |
| Dimerization | c-MET/c-MET | RTK | ● | | | ● | |
| Dimerization | c-MET/EGFR | RTK | ● *New* | | | ● | |
| Functional | c-Ret-GFRα1 | RTK | ● | ● | | ● | ● |
| Functional | c-Ret-GFRα2 | RTK | ● | ● | | ● | ● |
| Functional | c-Ret-GFRα3 | RTK | ● | | | ● | |
| Target Engagement | CSF1R | Kinase | ● | ● | | ● | |
| Dimerization | CSF1R/CSF1R | RTK | ● | ● | | ● | |
| Dimerization | CSF2RB/CSF2RA | RTK | ● | ● | | ● | |
| Functional | CSF3R-JAK1 | CTK | ● | ● | | ● | |
| Target Engagement | CSNK1D | Kinase | ● | ● | | ● | |
| Target Engagement | CSNK2A2 | Kinase | | | | ● | |
| Functional | DDR1 | RTK | ● | ● | | ● | ● |
| Dimerization | EGFR/EGFR | RTK | ● | ● | | ● | |
| Dimerization | EGFR/ErbB2 | RTK | ● | ● | ● | ● | |
| Dimerization | EGFR/ErbB3 | RTK | ● | | | ● | |
| Functional | EphA4 | RTK | ● | | | ● | ● |
| Functional | EphA5 | RTK | ● | ● | | ● | ● |
| Functional | EphA7 | RTK | ● | ● | | ● | ● |
| Functional | EphB1 | RTK | ● | ● | | ● | ● |
| Functional | EphB2 | RTK | ● | ● | | ● | ● |
| Functional | EphB3 | RTK | ● | ● | | ● | ● |
| Functional | EphB4 | RTK | ● | | | ● | ● |
| Dimerization | EpoR/EpoR | RTK | ● | ● | ● | ● | |
| Functional | EpoR-JAK2 | CTK | ● | ● | | ● | |
| Functional | ErbB1 | RTK | ● | | | ● | |

## Kinase Products Target List

| PathHunter® and InCELL Cell-Based Assays for RTKs, CTKs and Kinases | | | | | | * See last table for full recombinant protein list | |
|---|---|---|---|---|---|---|---|
| **Application** | **Target** | **Kinase Type** | **Cell Line** | **eXpress Kit** | **Bioassay Kit** | **Expression Vector** | **Recombinant** |
| Dimerization | ErbB2/ErbB3 | RTK | ● | | ● | ● | |
| Functional | ErbB2-ErbB3 | RTK | ● | ● | | ● | |
| Functional | ErbB4 | RTK | ● | | | ● | ● |
| Dimerization | ErbB4/ErbB4 | RTK | ● | ● | | ● | |
| Target Engagement | ERK1 | Kinase | | | | ● | |
| Target Engagement | FAK | Kinase | | | | ● | ● |
| Functional | FGFR1 | RTK | ● | ● | | ● | ● |
| Functional | FGFR1-α-Klotho | RTK | ● | | | ● | |
| Functional | FGFR1-β-Klotho | RTK | ● | | | ● | |
| Functional | FGFR1v3B | RTK | ● | | | | |
| Functional | FGFR2 | RTK | ● | | | ● | ● |
| Dimerization | FGFR3(G380R)/FGFR3(G38 | RTK | ● | | | ● | |
| Dimerization | FGFR3/FGFR3 | RTK | ● | | | ● | |
| Functional | FGFR4 | RTK | ● | ● | | ● | ● |
| Functional | FGFR4-α-Klotho | RTK | ● | | | ● | |
| Functional | FGFR4-β-Klotho | RTK | ● | ● | ● | ● | |
| Activity, Target Engagement | FGR | CTK | ● | ● | | ● | ● |
| Activity | Flt3 | RTK | ● | ● | | ● | ● |
| Activity | Flt4 | RTK | ● | ● | | ● | ● |
| Target Engagement | GAK | Kinase | | | | ● | |
| Functional | GHR-JAK1 | CTK | ● | ● | ● | ● | |
| Functional | GHR-JAK2 | CTK | ● | ● | | ● | |
| Target Engagement | HASPIN | Kinase | | | | ● | ● |
| Target Engagement | HCK | Kinase | ● | ● | | ● | ● |
| Target Engagement | HPK1 | Kinase | ● | | | | |
| Functional, Target Engagement | IGF1R | RTK | ● | ● | ● | ● | |
| Functional | INSRa | RTK | ● | | | ● | |
| Functional | INSRb | RTK | ● | | ● | ● | |
| Functional | INSRa (mouse) | RTK | ● | ● | | ● | |
| Functional | INSRb (mouse) | RTK | ● | ● | | ● | |
| Target Engagement | JAK2(JH1) | Kinase | | | | ● | |
| Activity | JAK3 | CTK | ● | ● | | ● | ● |
| Activity | KDR | RTK | ● | ● | | ● | ● |
| Dimerization | KDR/KDR | RTK | ● | ● | ● | ● | |
| Target Engagement | KIT | Kinase | | | | ● | ● |
| Activity | LCK | CTK | ● | | | ● | ● |
| Target Engagement | MEK1 | Kinase | ● | ● | | ● | ● |
| Target Engagement | p38α | Kinase | | | | ● | ● |
| Target Engagement | PAK4 | Kinase | | | | ● | ● |
| Functional | PDGFRα | RTK | ● | ● | ● | ● | ● |
| Functional | PDGFRβ | RTK | ● | ● | ● | ● | ● |
| Target Engagement | PI3Kδ | Kinase | ● | | | ● | |
| Target Engagement | PIKFYVE | Kinase | ● | | | ● | |
| Target Engagement | PIM1 | Kinase | ● | ● | | ● | |
| Target Engagement | PKACα | Kinase | | | | ● | |
| Target Engagement | PKCθ | Kinase | ● | | | ● | |
| Target Engagement | PLK1 | Kinase | | | | ● | ● |
| Functional | PRLR-JAK1 | CTK | ● | ● | | ● | |
| Functional | PRLR-JAK2 | CTK | ● | ● | | ● | |
| Target Engagement | PYK2 | Kinase | ● | ● | | ● | ● |
| Target Engagement | RIPK1 | Kinase | ● | | | ● | |
| Target Engagement | RIPK2 | Kinase | ● | ● | | ● | ● |
| Target Engagement | RIPK3 | Kinase | ● | | | ● | |
| Target Engagement | SIK1 | Kinase | ● | ● | | ● | ● |
| Target Engagement | SRPK1 | Kinase | | | | ● | ● |
| Activity | SYK | CTK | ● | ● | | ● | ● |
| Dimerization | TGFBR1/ACVR2 | RTK | ● | ● | | ● | |
| Dimerization | TGFBR1/ACVR2B | RTK | ● | ● | | ● | |
| Dimerization | TGFBR1/TGFBR2 | RTK | ● | ● | | ● | |
| Dimerization | TGFBR1/TGFBR2/ENG | RTK | ● | | | ● | |
| Functional | Tie2 | RTK | ● | | | ● | ● |
| Functional | TrkA | RTK | ● | ● | | ● | ● |
| Functional | TrkA-P75 | RTK | ● | ● | ● | ● | |
| Functional | TrkA-P75 (rat) | RTK | ● | ● | | ● | |
| Functional | TrkA-P75 (monkey) | RTK | ● | ● | | ● | |
| Functional | TrkB | RTK | ● | ● | | ● | ● |
| Functional | TrkB-P75 | RTK | ● | ● | ● | ● | |
| Functional | TrkC | RTK | ● | ● | ● | ● | ● |
| Functional | TrkC-P75 | RTK | ● | ● | | ● | |
| Activity | TYK2 | CTK | ● | ● | | ● | ● |
| Functional | TYRO3 | RTK | ● | | | ● | |
| Target Engagement | ULK1 | Kinase | ● *New* | | | | |
| Target Engagement | VPS34 | Kinase | | | | ● | |
| Activity | YES1 | CTK | ● | ● | | ● | ● |

# Kinase & Phosphatase Products Target List

Email customerservicedrx@eurofins.com to request custom products ending in Catalog No. -K

2024

## Recombinant Kinases and Phosphatases

*Multiple sizes including bulk sizes are available*

| Product Name | Target | Target Type | Expression System | Tag | Species | Molecular Weight | Base Catalog No. |
|---|---|---|---|---|---|---|---|
| AAK1, active | AAK1 | Kinase | Sf21 insect cells | His6 | Human | 43 kDa | 16-043 |
| Abl (H396P), active | Abl | Kinase | Sf21 insect cells | His6 | Human | 121 kDa | 14-750 |
| Abl (M351T), active | Abl | Kinase | Sf21 insect cells | His6 | Human | 121 kDa | 14-757 |
| Abl (Q252H), active | Abl | Kinase | Sf21 insect cells | His6 | Human | 121 kDa | 14-751 |
| Abl (T315I), active | Abl | Kinase | Sf21 insect cells | His6 | Human | 121 kDa | 14-522 |
| Abl (Y253F), active | Abl | Kinase | Sf21 insect cells | His6 | Human | 121 kDa | 14-759 |
| Abl, active | Abl | Kinase | Sf21 insect cells | His6 | Human | 121 kDa | 14-529 |
| Abl, active, mouse | Abl | Kinase | Sf21 insect cells | His6 | Mouse | 123.5 kDa | 14-459 |
| ACK1, active | ACK1 | Kinase | Sf21 insect cells | GST | Human | 71.5 kDa | 14-756 |
| ACTR2, active | ACTR2 | Kinase | Sf21 insect cells | GST | Human | 66 kDa | 16-009 |
| ActRIIB, active | ActRIIB | Kinase | Sf21 insect cells | GST | Human | 61 kDa | 16-052 |
| Akt1/PKBα (δPH, S473D), active | Akt1/PKBα | Kinase | Sf21 insect cells | His6 | Human | 45 kDa | 14-453 |
| Akt1/PKBα, active | Akt1/PKBα | Kinase | Sf21 insect cells | His6 | Human | 59.9 kDa | 14-276 |
| Akt1/PKBα, unactive | Akt1/PKBα | Kinase | Sf21 insect cells | His6 | Human | 59 kDa | 14-279 |
| Akt2/PKBβ (δPH, S474D), active | Akt2/PKBβ | Kinase | Sf21 insect cells | His6 | Human | 42.8 kDa | 14-339 |
| Akt3/PKBγ (S472D), active | Akt3/PKBγ | Kinase | Sf21 insect cells | His6 | Human | 43 kDa | 14-502 |
| Alk, active | ALK | Kinase | Sf21 insect cells | His6 | Human | 63.8 kDa | 14-555 |
| ALK1, active | ALK1 | Kinase | Sf21 insect cells | His6 | Human | 45 kDa | 14-954 |
| ALK2, active | ALK2 | Kinase | Sf21 insect cells | His6 | Human | 45 kDa | 14-937 |
| ALK4, active | ALK4 | Kinase | Sf21 insect cells | GST | Human | 63.8 kDa | 14-614 |
| ALK6, active | ALK6 | Kinase | Sf21 insect cells | His6 | Human | 44 kDa | 14-941 |
| AMPK (α1, β1, γ1), active | AMPK (α1, β1, γ1) | Kinase | E. coli | His6 | Human | 64 kDa (AMPKα1),<br>30 kDa (AMPKß1),<br>38 kDa (AMPKγ1) | 14-840 |
| AMPK (α2, β1, γ1), active | AMPK (α2, β1, γ1) | Kinase | E. coli | His6 | Human | 63 kDa (AMPKα2),<br>30 kDa (AMPKß1),<br>38 kDa (AMPKγ1) | 14-902 |
| A-Raf, active | A-Raf | Kinase | Sf21 insect cells | GST | Human | 65 kDa | 14-956 |
| Arg, active | Arg | Kinase | Sf21 insect cells | His6 | Human | 121.9 kDa | 14-521 |
| Arg, active, mouse | Arg | Kinase | Sf21 insect cells | His6 | Mouse | 124.5 kDa | 14-460 |
| ARK5, active | NuaK1 (ARK5) | Kinase | Sf21 insect cells | His6 | Human | 78 kDa | 14-661 |
| ASK1, active | Ask1 | Kinase | E. coli | GST, His6 | Human | 61.5 kDa | 14-606 |
| ATM, active | ATM | Kinase | Mammalian cell line | FLAG | Human | 352 kDa | 14-933 |
| ATR/ATRIP, active | ATR/ATRIP | Kinase | Mammalian cell line | FLAG, cMyc | Human | 303 kDa (ATR),<br>87 kDa (ATRIP) | 14-953 |
| Aurora A, active | Aurora-A | Kinase | Sf21 insect cells | His6 | Human | 46.9 kDa | 14-511 |
| Aurora B, active | Aurora-B | Kinase | Sf21 insect cells | GST | Human | 40 kDa (Aurora B),<br>38 kDa (INCENP) | 14-835 |
| Aurora C, active | Aurora C | Kinase | Sf21 insect cells | GST, His6 | Human | 36 kDa (Aurora C),<br>38 kDa (INCENP) | 14-911 |
| Axl, active | Axl | Kinase | Sf21 insect cells | His6 | Human | 48 kDa | 14-512 |
| BIKe, active | BIKe | Kinase | Sf21 insect cells | His6 | Human | 44 kDa | 16-044 |
| Blk, active | Blk | Kinase | Sf21 insect cells | His6 | Human | 58.8 kDa | 14-517 |
| Blk, active, mouse | Blk | Kinase | Sf21 insect cells | His6 | Mouse | 57.7 kDa | 14-316 |
| BMPR2, active | BMPR2 | Kinase | Sf21 insect cells | His6 | Human | 67 kDa | 16-001 |
| Bmx, active | Bmx | Kinase | Sf21 insect cells | His6 | Human | 79 kDa | 14-499 |
| B-Raf (V599E), active | B-Raf | Kinase | Sf21 insect cells | GST | Human | 67.3 kDa | 14-557 |
| B-Raf (δ1-415), active | B-Raf | Kinase | Sf21 insect cells | GST | Human | 67.2 kDa | 14-530 |
| Brk, active | BRK | Kinase | Sf21 insect cells | His6 | Human | 55.3 kDa | 14-613 |
| BrSK1, active | BrSK1 | Kinase | Sf21 insect cells | His6 | Human | 88.4 kDa | 14-675 |
| BrSK2, active | BrSK2 | Kinase | Sf21 insect cells | His6 | Human | 78.5 kDa | 14-655 |
| BTK (E41K), active | BTK | Kinase | Sf21 insect cells | His6 | Human | 78.4 kDa | 14-773 |
| BTK (R28H), active | BTK | Kinase | Sf21 insect cells | His6 | Human | 78.4 kDa | 14-765 |
| BTK, active | BTK | Kinase | Sf21 insect cells | His6 | Human | 78.4 kDa | 14-552 |
| CaM Kinase I γ, active | CaM Kinase I γ | Kinase | Sf21 insect cells | GST | Human | 80 kDa | 14-967 |
| CaM Kinase I, active | CaMKI | Kinase | E. coli | GST | Human | 68 kDa | 14-663 |
| CaM Kinase Iβ, active | CaM Kinase Iβ | Kinase | Sf21 insect cells | GST | Human | 65 kDa | 15-001 |
| CaM Kinase IIα, active | CaM Kinase IIa | Kinase | Sf21 insect cells | His6 | Human | 55 kDa | 14-962 |
| CaM Kinase IIβ, active | CaMKIIβ | Kinase | Sf21 insect cells | His6 | Human | 39.6 kDa | 14-718 |
| CaM Kinase IIγ, active | CaMKIIγ | Kinase | Sf21 insect cells | His6 | Human | 41.2 kDa | 14-719 |
| CaM Kinase IIδ, active | CaMKIIδ | Kinase | Sf21 insect cells | His6 | Human | 58 kDa | 14-723 |
| CaM Kinase IV, active | CaMKIV | Kinase | Sf21 insect cells | His6 | Human | 52.9 kDa | 14-547 |
| CaM Kinase Iδ, active | CaMKIδ | Kinase | Sf21 insect cells | His6 | Human | 46.7 kDa | 14-731 |
| CaMKK1, active | CaMKK1 | Kinase | Sf21 insect cells | His6 | Human | 60 kDa | 15-022 |
| CaMKK2, active | CaMKK2 | Kinase | Sf21 insect cells | His6 | Human | 64 kDa | 14-931 |
| Casein Kinase 1γ1, active | CK1γ1 | Kinase | Sf21 insect cells | His6 | Human | 41.9 kDa | 14-711 |
| Casein Kinase 1γ2, active | CK1γ2 | Kinase | Sf21 insect cells | His6 | Human | 49.7 kDa | 14-712 |
| Casein Kinase 1γ3, active | CK1γ3 | Kinase | Sf21 insect cells | His6 | Human | 42.2 kDa | 14-713 |
| Casein Kinase 1δ (aa 1-294), active | CK1γδ | Kinase | E. coli | GST | Human | 61 kDa | 14-520 |
| Casein Kinase 2, active | CK2 | Kinase | Sf21 insect cells | GST, His6 | Human | 49 kDa (α-subunit),<br>53 kDa (β-subunit) | 14-197 |
| Casein Kinase 2α, active | CK2α | Kinase | Sf21 insect cells | His6 | Human | 48.7 kDa | 14-445 |
| Casein Kinase 2α2, active | CK2α2 | Kinase | Sf21 insect cells | His6 | Human | 45.8 kDa | 14-689 |
| CD45 | CD45 | Phosphatase | E. coli | His6 | Human | 84 kDa | 14-618 |
| Cdc7/cyclin B1, active | Cdc7/cyclin B1 | Kinase | Sf21 insect cells | GST | Human | 92 kDa (Cdc7),<br>75 kDa (cyclin B1) | 16-025 |
| Cdk1/cyclin B, active | CDK1/cyclinB | Kinase | Sf21 insect cells | GST, His6 | Human | 35 kDa (cdk1),<br>75 kDa (cyclin B) | 14-450 |
| CDK12/cyclin K, active | CDK12/cyclin K | Kinase | Sf21 insect cells | FLAG/untagged | Human | 165 kDa/65 kDa | 16-008-K |
| CDK13/cyclin K, active | CDK13/cyclin K | Kinase | Sf21 insect cells | FLAG/untagged | Human | 167 kDa/65 kDa | 16-023-K |
| CDK14/cyclin Y, active | CDK14/cyclin Y | Kinase | Sf21 insect cells | His6/His6 | Human | 54 kDa/44 kDa | 15-034-K |
| CDK16/cyclin Y, active | CDK16/cyclin Y | Kinase | Sf21 insect cells | GST/GST | Human | 83 kDa/67 kDa | 16-041 |
| CDK17/cyclin Y, active | CDK17/cyclin Y | Kinase | Sf21 insect cells | GST/GST | Human | 87 kDa/67 kDa | 16-042 |
| CDK18/cyclin Y, active | CDK18/cyclin Y | Kinase | Sf21 insect cells | GST/GST | Human | 81 kDa/67 kDa | 15-031 |
| Cdk2/Cyclin A, active | CDK2/cyclinA | Kinase | Sf21 insect cells | GST, His6 | Human | 35 kDa | 14-448 |
| Cdk2/Cyclin E, active | CDK2/cyclinE | Kinase | Sf21 insect cells | GST, His6 | Human | 34 kDa (cdk2),<br>74 kDa (cyclin) | 14-475 |
| Cdk3/Cyclin E, active | CDK3/cyclinE | Kinase | Sf21 insect cells | GST, His6 | Human | 36 kDa (cdk3),<br>74 kDa (cyclin E) | 14-487 |
| CDK4/cyclin D3, active | CDK4/cyclin D3 | Kinase | Sf21 insect cells | GST | Human | 61 kDa (CDK4),<br>59 kDa (cyclin D3) | 14-957 |
| Cdk5/p25, active | CDK5/p25 | Kinase | Sf21 insect cells | GST, His6 | Human | 34.4 kDa (cdk5),<br>49.4 kDa (p25) | 14-516 |

# Kinase & Phosphatase Products Target List

Email customerservicedrx@eurofins.com to request custom products ending in Catalog No. -K

2024

**Recombinant Kinases and Phosphatases** *Multiple sizes including bulk sizes are available*

| Product Name | Target | Target Type | Expression System | Tag | Species | Molecular Weight | Base Catalog No. |
|---|---|---|---|---|---|---|---|
| Cdk5/p35, active | CDK5/p35 | Kinase | Sf21 insect cells | GST, His6 | Human | 34 kDa (cdk5),<br>61 kDa (p35 with GST-tag) | 14-477 |
| Cdk6/Cyclin D3, active | CDK6/cyclinD3 | Kinase | Sf21 insect cells | GST, His6 | Human | 38 kDa (cdk6),<br>59 kDa (cyclin D3) | 14-519 |
| Cdk7/Cyclin H/MAT1 (CAK complex), active | CDK7/cyclinH/MAT1 | Kinase | Sf21 insect cells | GST, His6 | Human | 39.9 kDa (cdk7),<br>37.8 kDa (cyclin H),<br>62.8 kDa (MAT1) | 14-476 |
| Cdk9/Cyclin T1, active | CDK9/cyclin T1 | Kinase | Sf21 insect cells | His6 | Human | 44 kDa (cdk9),<br>80.79 kDa (cyclinT1) | 14-685 |
| CDKL1, active | CDKL1 | Kinase | Sf21 insect cells | His6 | Human | 39 kDa | 16-002-K |
| CDKL2, active | CDKL2 | Kinase | Sf21 insect cells | His6 | Human | 60 kDa | 16-034 |
| CDKL3, active | CDKL3 | Kinase | Sf21 insect cells | His6 | Human | 55 kDa | 16-027 |
| CDKL4, active | CDKL4 | Kinase | Sf21 insect cells | His6 | Human | 40 kDa | 16-031 |
| ChaK1, active | ChaK1 | Kinase | Sf21 insect cells | His6 | Human | 82 kDa | 14-961 |
| CHK1, active | CHK1 | Kinase | Sf21 insect cells | GST | Human | 81.6 kDa | 14-346 |
| CHK2 (hu,5-end, R145W) | CHK2 | Kinase | E. coli | GST, His6 | Human | 89.6 kDa | 14-740 |
| CHK2 (I157T), active | CHK2 | Kinase | E. coli | GST, His6 | Human | 89.6 kDa | 14-741 |
| CHK2, active | CHK2 | Kinase | E. coli | GST, His6 | Human | 89.6 kDa | 14-347 |
| CK1α, active | CK1α | Kinase | Sf21 insect cells | FLAG, His6 | Human | 42 kDa | 16-050-K |
| CK1ε, active | CK1ε | Kinase | Sf21 insect cells | GST | Human | 67 kDa | 16-045-K |
| c-Kit (D816H), active | c-Kit | Kinase | Sf21 insect cells | GST | Human | 76.7 kDa | 14-726 |
| c-Kit (D816V), active | c-Kit | Kinase | Sf21 insect cells | GST | Human | 76.7 kDa | 14-611 |
| c-Kit (V560G), active | c-Kit | Kinase | Sf21 insect cells | GST | Human | 76.6 kDa | 14-730 |
| c-Kit (V654A), active | c-Kit | Kinase | Sf21 insect cells | GST | Human | 76.7 kDa | 14-733 |
| c-Kit, active | c-Kit | Kinase | Sf21 insect cells | GST | Human | 76.7 kDa | 14-559 |
| CLIK1, active | CLIK1 | Kinase | Sf21 insect cells | His6 | Human | 45 kDa | 15-026 |
| CLK1, active | CLK1 | Kinase | Sf21 insect cells | His6 | Human | 45 kDa | 14-920 |
| CLK2, active | CLK2 | Kinase | Sf21 insect cells | GST | Human | 70.4 kDa | 14-774 |
| CLK3, active | CLK3 | Kinase | Sf21 insect cells | His6 | Human | 63 kDa | 14-724 |
| CLK4, active | CLK4 | Kinase | Sf21 insect cells | His6 | Human | 46 kDa | 14-917 |
| CRIK, active | CRIK | Kinase | Sf21 insect cells | GST | Human | 77 kDa | 16-040 |
| CSK, active | CSK | Kinase | E. coli | GST | Human | 77.6 kDa | 14-458 |
| DAPK1, active | DAPK1 | Kinase | Sf21 insect cells | GST | Human | 60.9 kDa | 14-692 |
| DAPK2, active | DAPK2 | Kinase | Sf21 insect cells | GST | Human | 70.6 kDa | 14-657 |
| DCAMKL1, active | DCAMKL1 | Kinase | Sf21 insect cells | His6 | Human | 85 kDa | 14-986 |
| DCAMKL2, active | DCAMKL2 | Kinase | Sf21 insect cells | His6 | Human | 39.1 kDa | 14-716 |
| DCAMKL3, active | DCAMKL3 | Kinase | Sf21 insect cells | His6 | Human | 38 kDa | 14-943 |
| DDR1, active | DDR1 | Kinase | Sf21 insect cells | His6 | Human | 50 kDa | 14-942 |
| DDR2, active | DDR2 | Kinase | Sf21 insect cells | His6 | Human | 48 kDa | 14-579 |
| DMPK, active | DMPK | Kinase | Sf21 insect cells | His6 | Human | 65 kDa | 14-649 |
| DNA-PK, active | DNA-PK | Kinase | Mammalian cell line | FLAG | Human | 470 kDa | 14-950 |
| DRAK1, active | DRAK1 | Kinase | Sf21 insect cells | His6 | Human | 50.4 kDa | 14-668 |
| DRAK2, active | DRAK2 | Kinase | Sf21 insect cells | His6 | Human | 46 kDa | 16-003 |
| DUSP22 | DUSP22 | Phosphatase | E. coli | GST | Human | 47.3 kDa | 14-641 |
| DYRK1A, active | DYRK1A | Kinase | Sf21 insect cells | GST | Human | 112 kDa | 14-951 |
| DYRK1B, active | DYRK1B | Kinase | Sf21 insect cells | GST | Human | 96 kDa | 14-944 |
| DYRK2, active | DYRK2 | Kinase | Sf21 insect cells | His6 | Human | 63.5 kDa | 14-669 |
| DYRK3, active | DYRK3 | Kinase | Sf21 insect cells | GST | Human | 94 kDa | 15-002 |
| eEF-2K, active | eEF-2K | Kinase | E. coli | GST | Human | 108.5 kDa | 14-654 |
| EGFR (L858R), active | EGFR | Kinase | Sf21 insect cells | GST | Human | 85.8 kDa | 14-626 |
| EGFR (L861Q), active | EGFR | Kinase | Sf21 insect cells | GST | Human | 85.8 kDa | 14-627 |
| EGFR (T790M), active | EGFR | Kinase | Sf21 insect cells | GST | Human | 86 kDa | 14-725 |
| EGFR (T790M, L858R), active | EGFR | Kinase | Sf21 insect cells | GST | Human | 85.8 kDa | 14-721 |
| EGFR, active | EGFR | Kinase | Sf21 insect cells | GST | Human | 86 kDa | 14-531 |
| EphA1, active | EphA1 | Kinase | Sf21 insect cells | His6 | Human | 50.6 kDa | 14-653 |
| EphA2, active | EphA2 | Kinase | Sf21 insect cells | His6 | Human | 38 kDa | 14-560 |
| EphA3, active | EphA3 | Kinase | Sf21 insect cells | His6 | Human | 49 kDa | 14-644 |
| EphA4, active | EphA4 | Kinase | Sf21 insect cells | His6 | Human | 37 kDa | 14-574 |
| EphA5, active | EphA5 | Kinase | Sf21 insect cells | His6 | Human | 37.9 kDa | 14-639 |
| EphA7, active | EphA7 | Kinase | Sf21 insect cells | His6 | Human | 38 kDa | 14-672 |
| EphA8, active | EphA8 | Kinase | Sf21 insect cells | His6 | Human | 37.1 kDa | 14-673 |
| EphB1, active | EphB1 | Kinase | Sf21 insect cells | His6 | Human | 51.4 kDa | 14-674 |
| EphB2, active | EphB2 | Kinase | Sf21 insect cells | His6 | Human | 52 kDa | 14-553 |
| EphB3, active | EphB3 | Kinase | Sf21 insect cells | His6 | Human | 40 kDa | 14-561 |
| EphB4, active | EphB4 | Kinase | Sf21 insect cells | His6 | Human | 51 kDa | 14-554 |
| ErbB2, active | ErbB2 | Kinase | Sf21 insect cells | His6 | Human | 69 kDa | 14-939 |
| ErbB4, active | ErbB4 | Kinase | Sf21 insect cells | His6 | Human | 36.1 kDa | 14-569 |
| FAK, active | FAK | Kinase | Sf21 insect cells | His6 | Human | 35.5 kDa | 14-720 |
| Fer, active | Fer | Kinase | Sf21 insect cells | His6 | Human | 35.6 kDa | 14-605 |
| Fes/Fps, active | Fes/Fps | Kinase | Sf21 insect cells | His6 | Human | 98 kDa | 14-473 |
| FGFR1 (V561M), active | FGFR1 | Kinase | Sf21 insect cells | GST | Human | 62.3 kDa | 14-734 |
| FGFR1, active | FGFR1 | Kinase | Sf21 insect cells | GST | Human | 62 kDa | 14-582 |
| FGFR2 (N549H), active | FGFR2 | Kinase | Sf21 insect cells | His6 | Human | 38.1 kDa | 14-742 |
| FGFR2, active | FGFR2 | Kinase | Sf21 insect cells | His6 | Human | 38 kDa | 14-617 |
| FGFR3, active | FGFR3 | Kinase | Sf21 insect cells | His6 | Human | 36.8 kDa | 14-464 |
| FGFR4, active | FGFR4 | Kinase | Sf21 insect cells | His6 | Human | 36.4 kDa | 14-583 |
| Fgr, active | Fgr | Kinase | Sf21 insect cells | His6 | Human | 60.4 kDa | 14-568 |
| Flt1, active | Flt1 | Kinase | Sf21 insect cells | GST | Human | 89 kDa | 14-923 |
| Flt-3 (D835Y), active | Flt3 | Kinase | Sf21 insect cells | GST | Human | 77.4 kDa | 14-610 |
| Flt-3, active | Flt3 | Kinase | Sf21 insect cells | GST | Human | 77.4 kDa | 14-500 |
| Flt-4, active | Flt4 | Kinase | Sf21 insect cells | GST | Human | 90.9 kDa | 14-681 |
| Fms (Y969C), active | Fms | Kinase | Sf21 insect cells | His6 | Human | 50.2 kDa | 14-820 |
| Fms, active | Fms | Kinase | Sf21 insect cells | His6 | Human | 50.2 kDa | 14-551 |
| Fyn, active | Fyn | Kinase | Sf21 insect cells | His6 | Human | 61.8 kDa | 14-441 |
| GAK, active | GAK | Kinase | Sf21 insect cells | FLAG, His6 | Human | 40.2 kDa | 16-055 |
| GCK, active | GCK | Kinase | Sf21 insect cells | GST | Human | 80.6 kDa | 14-743 |
| GCN2, active | GCN2 | Kinase | Sf21 insect cells | GST | Human | 215 kDa | 14-934 |
| GRK1, active | GRK1 | Kinase | Sf21 insect cells | His6 | Human | 68 kDa | 14-935 |
| GRK2, active | RK2 | Kinase | Sf21 insect cells | His6 | Human | 82 kDa | 14-965 |
| GRK3, active | GRK3 | Kinase | Sf21 insect cells | His6 | Human | 81 kDa | 15-028 |
| GRK4, active | GRK4 | Kinase | Sf21 insect cells | His6 | Human | 67.7 kDa | 16-057 |

# Kinase & Phosphatase Products Target List

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2024

## Recombinant Kinases and Phosphatases

*Multiple sizes including bulk sizes are available*

| Product Name | Target | Target Type | Expression System | Tag | Species | Molecular Weight | Base Catalog No. |
|---|---|---|---|---|---|---|---|
| GRK5, active | GRK5 | Kinase | Sf21 insect cells | His6 | Human | 71.6 kDa | 14-714 |
| GRK6, active | GRK6 | Kinase | Sf21 insect cells | His6 | Human | 69.8 kDa | 14-715 |
| GRK7, active | GRK7 | Kinase | Sf21 insect cells | His6 | Human | 66 kDa | 14-752 |
| GSK3α, active | GSK3α | Kinase | Sf21 insect cells | His6 | Human | 55 kDa | 14-492 |
| GSK3β, active | GSK3β | Kinase | Sf21 insect cells | His6 | Human | 51 kDa | 14-306 |
| Haspin, active | haspin | Kinase | Sf21 insect cells | His6 | Human | 41.1 kDa | 14-744 |
| Hck, activated | Hck | Kinase | Sf21 insect cells | His6 | Human | 34.1 kDa | 14-843 |
| Hck, active | Hck | Kinase | Sf21 insect cells | His6 | Human | 34.1 kDa | 14-577 |
| HePTP | HePTP | Phosphatase | E. coli | His6 | Human | 40.7 kDa | 14-593 |
| HIPK1, active | HIPK1 | Kinase | Sf21 insect cells | His6 | Human | 49.6 kDa | 14-679 |
| HIPK2, active | HIPK2 | Kinase | Sf21 insect cells | His6 | Human | 49.6 kDa | 14-623 |
| HIPK3, active | HIPK3 | Kinase | Sf21 insect cells | His6 | Human | 49.7 kDa | 14-680 |
| HIPK4, active | HIPK4 | Kinase | Sf21 insect cells | His6 | Human | 71 kDa | 15-003 |
| HPK1, active | HPK1 | Kinase | Sf21 insect cells | GST, His6 | Human | 67 kDa | 14-968 |
| HRI, active | HRI | Kinase | Sf21 insect cells | GST | Human | 83 kDa | 16-013 |
| Histone H3 | Histone | Substrate | E. coli | His6 | Human | 17.5 kDa | 12-800 |
| ICK, active | ICK | Kinase | Sf21 insect cells | His6 | Human | 40 kDa | 15-023 |
| IGF-1R, activated | IGF-1R | Kinase | Sf21 insect cells | His6 | Human | 48 kDa | 14-802 |
| IGF-IR (δ1-958), active | IGF-1R | Kinase | Sf21 insect cells | His6 | Human | 48 kDa | 14-465 |
| IKKα, active | IKKα | Kinase | Sf21 insect cells | GST | Human | 111.6 kDa | 14-461 |
| IKKβ, active | IKKβ | Kinase | Sf21 insect cells | His6 | Human | 88 kDa | 14-485 |
| IKKε, active | IKKe | Kinase | Sf21 insect cells | GST, FLAG | Human | 109 kDa | 14-926 |
| Insulin Receptor, activated | IR | Kinase | Sf21 insect cells | His6 | Human | 38.6 kDa | 14-803 |
| Insulin Receptor, active | IR | Kinase | Sf21 insect cells | His6 | Human | 36.8 kDa | 14-466 |
| IRAK1, active | IRAK1 | Kinase | Sf21 insect cells | His6 | Human | 59.7 kDa | 14-684 |
| IRAK4, active | IRAK4 | Kinase | Sf21 insect cells | His6 | Human | 57.1 kDa | 14-599 |
| IRE1, active | IRE1 | Kinase | Sf21 insect cells | His6 | Human | 62 kDa | 14-930 |
| IRE2, active | IRE2 | Kinase | Sf21 insect cells | His6 | Human | 56 kDa | 16-054-K |
| IRR, active | IRR | Kinase | Sf21 insect cells | His6 | Human | 37.9 kDa | 14-645 |
| Itk, active | Itk | Kinase | Sf21 insect cells | His6 | Human | 34 kDa | 14-660 |
| JAK1, active | JAK1 | Kinase | Sf21 insect cells | GST | Human | 61 kDa | 14-918 |
| JAK2, active | JAK2 | Kinase | Sf21 insect cells | His6 | Human | 38.9 kDa | 14-640 |
| JAK3, active | JAK3 | Kinase | Sf21 insect cells | His6 | Human | 39.9 kDa | 14-629 |
| JNK1α1/SAPK1c, active | JNK1α1/SAPK1c | Kinase | Sf21 insect cells | His6 | Human | 45 kDa | 14-327 |
| JNK1α1/SAPK1c, unactive | JNK1α1/SAPK1c | Kinase | Sf21 insect cells | His6 | Human | 45 kDa | 14-328 |
| JNK2α2/SAPK1a, active | JNK2α2/SAPK1a | Kinase | Sf21 insect cells | His6 | Human | 49.2 kDa | 14-329 |
| JNK2α2/SAPK1a, unactive | JNK2α2/SAPK1a | Kinase | Sf21 insect cells | His6 | Human | 49.2 kDa | 14-330 |
| JNK3/SAPK1b, active | JNK3/SAPK1b | Kinase | Sf21 insect cells | His6 | Human | 53 kDa | 14-501 |
| JNK3/SAPK1b, unactive | JNK3/SAPK1b | Kinase | Sf21 insect cells | His6 | Human | 53 kDa | 14-523 |
| KDR, active | KDR | Kinase | Sf21 insect cells | His6 | Human | 67.9 kDa | 14-630 |
| Lambda PP, active, bacteriophage | Lambda PP | Phosphatase | E. coli | His6 | Bacteriophage | 26 kDa | 14-946MG |
| LATS1, active | LATS1 | Kinase | Sf21 insect cells | GST, His6 | Human | 90 kDa (LATS1),<br>30 kDa (MOBKL1A) | 14-988 |
| LATS2, active | LATS2 | Kinase | Sf21 insect cells | GST, His6 | Human | 89 kDa (LATS2),<br>30 kDa (MOBKL1A) | 14-987 |
| Lck, activated | Lck | Kinase | Sf21 insect cells | His6 | Human | 59 kDa | 14-842 |
| Lck, active | Lck | Kinase | Sf21 insect cells | His6 | Human | 59 kDa | 14-442 |
| LIM Kinase 1, active | LIMK1 | Kinase | Sf21 insect cells | His6 | Human | 41.2 kDa | 14-656 |
| LIM Kinase 1, unactive | LIMK1 | Kinase | Sf21 insect cells | His6 | Human | 41.8 kDa | 14-659 |
| LIMK2, active | LIMK2 | Kinase | Sf21 insect cells | His6 | Human | 76 kDa | 16-032 |
| LKB1/STRADα/MO25α, active | LKB1 | Kinase | Sf21 insect cells | GST, His6 | Human | 51 kDa (LKB1),<br>76 kDa (STRADα),<br>66 kDa (MO25α) | 14-596 |
| LMPTP-A | LMPTP-A | Phosphatase | E. coli | GST | Human | 44.5 kDa | 14-619 |
| LMPTP-B | LMPTP-B | Phosphatase | E. coli | GST | Human | 44 kDa | 14-620 |
| LOK, active | LOK | Kinase | Sf21 insect cells | His6 | Human | 43.2 kDa | 14-686 |
| LRRK2, active | LRRK2 | Kinase | Sf21 insect cells | FLAG | Human | 180 kDa | 14-919 |
| LTK, active | LTK | Kinase | Sf21 insect cells | GST | Human | 74 kDa | 14-958 |
| Lyn, active | Lyn | Kinase | Sf21 insect cells | His6 | Human | 59.6 kDa | 14-510 |
| Lyn, active, mouse | Lyn | Kinase | Sf21 insect cells | His6 | Mouse | 60 kDa | 14-315 |
| MAK, active | MAK | Kinase | Sf21 insect cells | GST | Human | 80 kDa | 16-010 |
| MAP Kinase 1/Erk1, active | MAPK1 | Kinase | E. coli | GST | Human | 69.9 kDa | 14-439 |
| MAP Kinase 1/Erk1, unactive | MAPK1 | Kinase | E. coli | GST | Human | 70 kDa | 14-515 |
| MAP Kinase 2/Erk2, active | MAPK2 | Kinase | E. coli | GST | Human | 67.8 kDa | 14-550 |
| MAP Kinase 2/Erk2, active, mouse | MAPK2 | Kinase | E. coli | GST | Mouse | 67.8 kDa | 14-173 |
| MAP Kinase 2/Erk2, unactive | MAPK2 | Kinase | E. coli | GST | Human | 67.8 kDa | 14-536 |
| MAP Kinase 2/Erk2, unactive, mouse | MAPK2 | Kinase | E. coli | GST | Mouse | 67.8 kDa | 14-198 |
| MAP4K3, active | MAP4K3 | Kinase | Sf21 insect cells | GST, His6 | Human | 64 kDa | 15-030-K |
| MAP4K5, active | MAP4K5 | Kinase | Sf21 insect cells | GST | Human | 122 kDa | 15-004-K |
| MAPK4, active | MAPK4 | Kinase | Sf21 insect cells | His6 | Human | 66 kDa | 15-012 |
| MAPKAP Kinase 2, active | MAPKAP-K2 | Kinase | E. coli | GST | Human | 70.2 kDa | 14-337 |
| MAPKAP Kinase 2, unactive | MAPKAP-K2 | Kinase | E. coli | GST | Human | 66 kDa | 14-349 |
| MAPKAP Kinase 3, active | MAPKAP-K3 | Kinase | E. coli | GST | Human | 69.8 kDa | 14-585 |
| MAPKAP Kinase 3, unactive | MAPKAP-K3 | Kinase | E. coli | GST | Human | 69.8 kDa | 14-586 |
| MARK1, active | MARK1 | Kinase | Sf21 insect cells | His6 | Human | 92.7 kDa | 14-651 |
| MARK3, active | MARK3 | Kinase | Sf21 insect cells | GST | Human | 108 kDa | 15-032-K |
| MARK4, active | MARK4 | Kinase | Sf21 insect cells | GST | Human | 109 kDa | 15-009-K |
| MATK, active | MATK | Kinase | Sf21 insect cells | His6 | Human | 53 kDa | 16-056 |
| MEK1, active | MEK1 | Kinase | E. coli | GST, His6 | Human | 71 kDa | 14-429 |
| MEK1, unactive | MEK1 | Kinase | E. coli | GST, His6 | Human | 71 kDa | 14-420 |
| MEK2, active | MEK2 | Kinase | Sf21 insect cells | His6 | Human | 46 kDa | 14-528 |
| MEK2, unactive | MEK2 | Kinase | Sf21 insect cells | His6 | Human | 46 kDa | 14-532 |
| MEKK2, active | MEKK2 | Kinase | Sf21 insect cells | His6 | Human | 74 kDa | 14-963 |
| MEKK3, active | MEKK3 | Kinase | Sf21 insect cells | GST | Human | 98 kDa | 16-015-K |
| MELK, active | MELK | Kinase | Sf21 insect cells | GST | Human | 66 kDa | 14-909 |
| Mer, active | Mer | Kinase | Sf21 insect cells | GST | Human | 64.4 kDa | 14-728 |
| Met (D1246H), active | Met (D1246H) | Kinase | Sf21 insect cells | His6 | Human | 50.1 kDa | 14-915 |
| Met (D1246N), active | Met | Kinase | Sf21 insect cells | His6 | Human | 50.1 kDa | 14-818 |
| Met (M1268T), active | Met | Kinase | Sf21 insect cells | His6 | Human | 50.1 kDa | 14-817 |
| Met (Y1248C), active | Met | Kinase | Sf21 insect cells | His6 | Human | 50 kDa | 14-805 |
| Met (Y1248D), active | Met | Kinase | Sf21 insect cells | His6 | Human | 50.0 kDa | 14-816 |
| Met (Y1248H), active | Met | Kinase | Sf21 insect cells | His6 | Human | 50.1 kDa | 14-804 |

# Kinase & Phosphatase Products Target List

Email customerservicedrx@eurofins.com to request custom products ending in Catalog No. -K

2024

## Recombinant Kinases and Phosphatases

*Multiple sizes including bulk sizes are available*

| Product Name | Target | Target Type | Expression System | Tag | Species | Molecular Weight | Base Catalog No. |
|---|---|---|---|---|---|---|---|
| Met, active | Met | Kinase | Sf21 insect cells | His6 | Human | 50 kDa | 14-526 |
| MINK, active | MINK | Kinase | Sf21 insect cells | His6 | Human | 38.7 kDa | 14-615 |
| MKK3, active | MKK3 | Kinase | Sf21 insect cells | His6 | Human | 37 kDa | 16-037-K |
| MKK4/SKK1, active, mouse | MKK4 | Kinase | E. coli | GST | Mouse | 67.7 kDa | 14-377 |
| MKK4/SKK1, unactive, mouse | MKK4 | Kinase | E. coli | GST | Mouse | 65 kDa | 14-378 |
| MKK6/SKK3 (S599D, T603D), active | MKK6 | Kinase | E. coli | MBP | Human | 80.6 kDa | 14-537 |
| MKK6/SKK3, active | MKK6 | Kinase | E. coli | MBP | Human | 82 kDa | 14-303 |
| MKK6/SKK3, unactive | MKK6 | Kinase | E. coli | Mal-E | Human | 80.6 kDa | 14-304 |
| MKP5, active | MKP5 | Phosphatase | E. coli | His6 | Human | 20.6 kDa | 14-779 |
| MLCK, active | MLCK | Kinase | Sf21 insect cells | His6 | Human | 43.7 kDa | 14-638 |
| MLK1, active | MLK1 | Kinase | Sf21 insect cells | His6 | Human | 35.3 kDa | 14-690 |
| MLK2, active | MLK2 | Kinase | Sf21 insect cells | His6 | Human | 54 kDa | 14-964 |
| MLK3, active | MLK3 | Kinase | Sf21 insect cells | GST | Human | 79 kDa | 16-039-K |
| MLK4, active | MLK4 | Kinase | Sf21 insect cells | GST | Human | 61 kDa | 16-051 |
| Mnk2, active | Mnk2 | Kinase | Sf21 insect cells | His6 | Human | 50 kDa | 14-664 |
| MOK, active | MOK | Kinase | Sf21 insect cells | GST, His6 | Human | 70 kDa | 14-960 |
| MRCKγ, active | MRCKγ | Kinase | Sf21 insect cells | FLAG, His6 | Human | 56 kDa | 16-046-K |
| MRCKα, active | MRCKα | Kinase | Sf21 insect cells | His6 | Human | 55.3 kDa | 14-691 |
| MRCKβ, active | MRCKβ | Kinase | Sf21 insect cells | His6 | Human | 55.5 kDa | 14-643 |
| MSK1, active | MSK1 | Kinase | Sf21 insect cells | His6 | Human | 94 kDa | 14-548 |
| MSK1, active (flag tag) | MSK1 | Kinase | Sf21 insect cells | His6, FLAG | Human | 94 kDa | 14-438 |
| MSK2, active | MSK2 | Kinase | Sf21 insect cells | His6 | Human | 89.9 kDa | 14-616 |
| MSK2, unactive | MSK2 | Kinase | Sf21 insect cells | His6 | Human | 89.9 kDa | 14-625 |
| MSSK1, active | MSSK1 | Kinase | Sf21 insect cells | His6 | Human | 65.7 kDa | 14-665 |
| MST1, active | MST1 | Kinase | Sf21 insect cells | His6 | Human | 57 kDa | 14-624 |
| MST2, active | MST2 | Kinase | Sf21 insect cells | His6 | Human | 57.2 kDa | 14-524 |
| MST3, active | MST3 | Kinase | Sf21 insect cells | GST | Human | 61.2 kDa | 14-695 |
| MST4, active | MST4 | Kinase | Sf21 insect cells | His6 | Human | 38 kDa | 14-928 |
| mTOR (1362-end), active | mTOR (FRAP1) | Kinase | Sf21 insect cells | FLAG | Human | 137.3 kDa | 14-770 |
| MuSK, active | MuSK | Kinase | Sf21 insect cells | His6 | Human | 43.1 kDa | 14-634 |
| MYLK2, active | MYLK2 | Kinase | Sf21 insect cells | His6 | Human | 66 kDa | 14-966 |
| MYO3B, active | MYO3B | Kinase | Sf21 insect cells | GST | Human | 65 kDa | 15-008-K |
| NDR1, active | NDR1 | Kinase | Sf21 insect cells | GST, His6 | Human | 83 kDa (NDR1),<br>30 kDa (MOBKL1A) | 14-989 |
| NDR2, active | NDR2 | Kinase | Sf21 insect cells | GST, His6 | Human | 72kDa | 16-028-K |
| NEK1, active | NEK1 | Kinase | Sf21 insect cells | GST, His6 | Human | 86 kDa | 15-020 |
| NEK11, active | NEK11 | Kinase | Sf21 insect cells | His6 | Human | 59.3 kDa | 14-700 |
| NEK2, active | NEK2 | Kinase | Sf21 insect cells | His6 | Human | 52.8 kDa | 14-545 |
| NEK3, active | NEK3 | Kinase | Sf21 insect cells | His6 | Human | 62.2 kDa | 14-694 |
| NEK4, active | NEK4 | Kinase | Sf21 insect cells | His6 | Human | 96 kDa | 15-033-K |
| NEK5, active | NEK5 | Kinase | Sf21 insect cells | His6 | Human | 39.9 kDa | 15-037 |
| NEK6, active | NEK6 | Kinase | Sf21 insect cells | His6 | Human | 40.5 kDa | 14-578 |
| NEK7, active | NEK7 | Kinase | Sf21 insect cells | His6 | Human | 37.9 kDa | 14-565 |
| NEK9, active | NEK9 | Kinase | Sf21 insect cells | His6 | Human | 41 kDa | 14-936 |
| NIM1, active | NIM1 | Kinase | Sf21 insect cells | GST | Human | 77 kDa | 14-945 |
| NLK, active | NLK | Kinase | Sf21 insect cells | His6 | Human | 48.7 kDa | 14-676 |
| NUAK2, active | NUAK2 | Kinase | Sf21 insect cells | GST | Human | 96 kDa | 15-005 |
| OSR1, active | OSR1 | Kinase | Sf21 insect cells | GST | Human | 86 kDa (OSR1),<br>67 kDa (MO25α) | 16-048 |
| p38α/SAPK2a (T106M), active | p38α/SAPK2a | Kinase | E. coli | GST | Human | 67.7 kDa | 14-687 |
| p38α/SAPK2a, active | p38α/SAPK2a | Kinase | E. coli | GST | Human | 67.7 kDa | 14-251 |
| p38α/SAPK2a, unactive | p38α/SAPK2a | Kinase | E. coli | GST | Human | 67.7 kDa | 14-252 |
| p38β2/SAPK2b2, active | p38β2/SAPK2b2 | Kinase | E. coli | GST | Human | 71 kDa | 14-253 |
| p38β2/SAPK2b2, unactive | p38β2/SAPK2b2 | Kinase | E. coli | GST | Human | 71 kDa | 14-244 |
| p38γ/SAPK3, active | p38γ/SAPK3 | Kinase | E. coli | GST | Human | 69 kDa | 14-246 |
| p38δ/SAPK4, active | p38δ/SAPK4 | Kinase | E. coli | GST | Human | 68.9 kDa | 14-249 |
| p53 (expressed in E.coli) | p53 | Kinase | E. coli | GST, c-Myc | Human | 72 kDa | 14-952 |
| p70 S6 Kinase, active | p70S6K | Kinase | Sf21 insect cells | His6 | Human | 48.7 kDa | 14-486 |
| PAK1, active | PAK1 | Kinase | Sf21 insect cells | FLAG | Human | 46 kDa | 14-927 |
| PAK2, active | PAK2 | Kinase | E. coli | His6 | Human | 62.8 kDa | 14-481 |
| PAK3, active | PAK3 | Kinase | Sf21 insect cells | His6 | Human | 63.2 kDa | 14-683 |
| PAK4, active | PAK4 | Kinase | Sf21 insect cells | GST, His6 | Human | 61.6 kDa | 14-584 |
| PAK5, active | PAK5 | Kinase | Sf21 insect cells | His6 | Human | 37.4 kDa | 14-699 |
| PAK6, active | PAK6 | Kinase | Sf21 insect cells | His6 | Human | 37.9 kDa | 14-633 |
| PAR-1Bα, active | PAR-1Ba | Kinase | Sf21 insect cells | His6 | Human | 81.6 kDa | 14-544 |
| PASK, active | PASK | Kinase | Sf21 insect cells | His6 | Human | 41.5 kDa | 14-701 |
| PDGFRα (550-end, V561D), active | PDGFRα | Kinase | Sf21 insect cells | His6 | Human | 63.5 kDa | 14-735 |
| PDGFRα (550-end,D842V), active | PDGFRα | Kinase | Sf21 insect cells | His6 | Human | 63.5 kDa | 14-729 |
| PDGFRα, active | PDGFRα | Kinase | Sf21 insect cells | His6 | Human | 63.5 kDa | 14-467 |
| PDGFRβ, active | PDGFRβ | Kinase | Sf21 insect cells | His6 | Human | 63.7 kDa | 14-463 |
| PDHK2, active | PDHK2 | Kinase | Sf21 insect cells | GST | Human | 73 kDa | 16-038-K |
| PDHK4, active | PDHK4 | Kinase | Sf21 insect cells | GST | Human | 74 kDa | 15-024 |
| PDK1, active | PDK1 | Kinase | Sf21 insect cells | His6 | Human | 59 kDa | 14-452 |
| PEK, active | PEK | Kinase | Sf21 insect cells | His6 | Human | 71 kDa | 14-916 |
| PhKγ1, active | PhKγ1 | Kinase | Sf21 insect cells | GST | Human | 72 kDa | 16-018-K |
| PhKγ2, active | PhKg2 | Kinase | E. coli | GST | Human | 61.37 kDa | 14-698 |
| PI3 Kinase (p110α (H1047R)/p85α) mouse | PI3Kα/p85α | Kinase | Sf21 insect cells | His6 | Mouse | 129 kDa (p110α H1047R),<br>83.6 kDa (p85α) | 14-787 |
| PI3 Kinase (p110α(E542K)/p85α) | PI3Kα/p85α | Kinase | Sf21 insect cells | His6 | Human | 125.3 kDa (p110α E542K),<br>83.7 kDa (p85α) | 14-782 |
| PI3 Kinase (p110α(E545K)/p85α) | PI3Kα/p85α | Kinase | Sf21 insect cells | His6 | Human | 125.3 kDa (p110α E542K),<br>83.7 kDa (p85α) | 14-783 |
| PI3 Kinase (p110α(E545K)/p85α), mouse | PI3Kα/p85α | Kinase | Sf21 insect cells | His6 | Mouse | 129 kDa (p110α E545K),<br>83.6 kDa (p85α) | 14-781 |
| PI3 Kinase (p110α/p65α), mouse | PI3Kα/p65α | Kinase | Sf21 insect cells | His6 | Mouse | 129 kDa (p110α),<br>65.9 kDa (p65α) | 14-786 |
| PI3 Kinase (p110α/p65α), mouse | PI3Kα/p65α | Kinase | Sf21 insect cells | His6 | Mouse | 125.3 kDa (p110α),<br>66 kDa (p65α) | 14-790 |
| PI3 Kinase (p110α/p85α) mouse | PI3Kα/p85α | Kinase | Sf21 insect cells | His6 | Mouse | 129 kDa (p110α),<br>83.6 kDa (p85α) | 14-785 |

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2024

## Recombinant Kinases and Phosphatases

*Multiple sizes including bulk sizes are available*

| Product Name | Target | Target Type | Expression System | Tag | Species | Molecular Weight | Base Catalog No. |
|---|---|---|---|---|---|---|---|
| PI3 Kinase (p110α/p85α), active | PI3Kα/p85α | Kinase | Sf21 insect cells | His6 | Human | 125.3 kDa (p110α), 83.7 kDa (p85α) | 14-602 |
| PI3 Kinase (p110β/p85α), active | PI3Kβ/p85α | Kinase | Sf21 insect cells | His6 | Human | 124 kDa (p110β), 83.7 kDa (p85α) | 14-603 |
| PI3 Kinase (p110β/p85β) mouse | PI3Kβ/p85β | Kinase | Sf21 insect cells | His6 | Mouse | 125.5 kDa (p110β), 81.4 kDa (p85β) | 14-788 |
| PI3 Kinase (p110δ/p85α), active | PI3Kδ/p85α | Kinase | Sf21 insect cells | His6 | Human | 121.6 kDa (p110δ), 83.7 kDa (p85α) | 14-604 |
| PI3 Kinase (p120γ) | PI3Kγ | Kinase | Sf21 insect cells | His6 | Human | 130 kDa | 14-558 |
| PI3K-C2α | PI3K-C2α | Kinase | Sf21 insect cells | His6 | Human | 161 kDa | 14-906 |
| PI3K-C2β | PI3KC2β | Kinase | Sf21 insect cells | His6 | Human | 189 kDa | 14-907 |
| PI3K-C2γ | PI3K-C2γ | Kinase | Sf21 insect cells | GST | Human | 112 kDa | 14-910 |
| PI3-Kinase (p110α(E542K)/p85α) mouse | PI3Kα/p85α | Kinase | Sf21 insect cells | His6 | Mouse | 129 kDa (p110α E542K), 84 kDa (p85α) | 14-791 |
| PI3-Kinase (p110α(H1047R)/p85α) | PI3Kα/p85α | Kinase | Sf21 insect cells | His6 | Human | 125 kDa (p110α H1047R), 84 kDa (p85α) | 14-792 |
| PI3-Kinase (p110β/p85α) mouse | PI3Kβ/p85α | Kinase | Sf21 insect cells | His6 | Mouse | 126 kDa (p110β), 84 kDa (p85α) | 14-794 |
| PI3-Kinase (p110δ/p85α) mouse | PI3Kδ/p85α | Kinase | Sf21 insect cells | His6 | Mouse | 124 kDa (p110δ), 84 kDa (p85α) | 14-789 |
| PI4KIIIα | PI4KIIIα | Kinase | Sf21 insect cells | FLAG | Human | 233 kDa | 14-908 |
| PIK3C3, active | PIK3C3 | Kinase | Sf21 insect cells | His6 | Human | 105 kDa | 14-940 |
| Pim1, active | Pim-1 | Kinase | E. coli | GST | Human | 62 kDa | 14-573 |
| PIM2, active | Pim-2 | Kinase | E. coli | GST | Human | 63.4 kDa | 14-607 |
| Pim-3, active | Pim-3 | Kinase | Sf21 insect cells | His6 | Human | 39.6 kDa | 14-738 |
| PIP4K2α, active | PIP4K2α | Kinase | Sf21 insect cells | His6 | Human | 51 kDa | 14-901 |
| PIP5K1α, active | PIP5K1α | Kinase | Sf21 insect cells | His6 | Human | 60 kDa | 14-844 |
| PIP5K1γ, active | PIP5K1γ | Kinase | Sf21 insect cells | His6 | Human | 77 kDa | 14-845 |
| PKA, catalytic subunit, recombinant | PKA | Kinase | E. coli | | Human | 40.7 kDa | 14-440 |
| PKAcβ, active | PKAcβ | Kinase | Sf21 insect cells | His6 | Human | 45 kDa | 15-007-K |
| PKC iota, active | PKCι | Kinase | Sf21 insect cells | His6 | Human | 68.6 kDa | 14-505 |
| PKC ζ, active | PKCζ | Kinase | Sf21 insect cells | His6 | Human | 68.9 kDa | 14-525 |
| PKC η, active | PKCη | Kinase | Sf21 insect cells | His6 | Human | 78.6 kDa | 14-497 |
| PKC θ, active | PKCθ | Kinase | Sf21 insect cells | His6 | Human | 83 kDa | 14-444 |
| PKCα, active | PKCα | Kinase | Sf21 insect cells | His6 | Human | 78 kDa | 14-484 |
| PKCβI, active | PKCβI | Kinase | Sf21 insect cells | His6 | Human | 78 kDa | 14-503 |
| PKCβII, active | PKCβII | Kinase | Sf21 insect cells | His6 | Human | 78.2 kDa | 14-496 |
| PKCγ, active | PKCγ | Kinase | Sf21 insect cells | His6 | Human | 79.5 kDa | 14-483 |
| PKCδ, active | PKCδ | Kinase | Sf21 insect cells | His6 | Human | 78.7 kDa | 14-504 |
| PKCε, active | PKCε | Kinase | Sf21 insect cells | His6 | Human | 84.6 kDa | 14-518 |
| PKCμ, active | PKCμ | Kinase | Sf21 insect cells | His6 | Human | 105 kDa | 14-508 |
| PKD2, active | PKD2 | Kinase | Sf21 insect cells | His6 | Human | 100 kDa | 14-506 |
| PKD3, active | PKD3 | Kinase | Sf21 insect cells | GST | Human | 128 kDa | 15-013-K |
| PKG1α, active | PKG1α | Kinase | Sf21 insect cells | His6 | Human | 80 kDa | 14-688 |
| PKG1β, active | PKG1β | Kinase | Sf21 insect cells | His6 | Human | 81.6 kDa | 14-650 |
| PKR, active | PKR | Kinase | Sf21 insect cells | GST, 10His | Human | 64 kDa | 14-955 |
| Plk1, active | Plk1 | Kinase | Sf21 insect cells | His6 | Human | 69.3 kDa | 14-777 |
| PLK3, active | PLK3 | Kinase | Sf21 insect cells | His6 | Human | 36 kDa | 14-572 |
| Plk4, active | Plk4 | Kinase | Sf21 insect cells | His6 | Human | 35 kDa | 16-026-K |
| PP1α | PP1α | Phosphatase | E. coli | | Human | 37.6 kDa | 14-595 |
| PP5, active | PP5 | Phosphatase | E. coli | GST | Human | 83.8 kDa | 14-778 |
| PRAK, active | PRAK | Kinase | Sf21 insect cells | His6 | Human | 55 kDa | 14-334 |
| PRAK, unactive | PRAK | Kinase | Sf21 insect cells | His6 | Human | 54 kDa | 14-335 |
| PRK1, active | PRK1 | Kinase | Sf21 insect cells | GST | Human | 77 kDa | 15-029-K |
| PRK2, active | PRK2 | Kinase | Sf21 insect cells | His6 | Human | 59.9 kDa | 14-549 |
| PRKG2, active | PRKG2 | Kinase | Sf21 insect cells | GST | Human | 115 kDa | 15-006-K |
| PRKX, active | PrKX | Kinase | Sf21 insect cells | His6 | Human | 44.7 kDa | 14-677 |
| PRP4, active | PRP4 | Kinase | Sf21 insect cells | His6 | Human | 44 kDa | 16-005-K |
| PTK5, active | PTK5 | Kinase | Sf21 insect cells | His6 | Human | 38 kDa | 14-693 |
| PTP-1B | PTP-1B | Phosphatase | E. coli | GST | Human | 64.1 kDa | 14-621 |
| PTPMEG-1 | PTPMEG-1 | Phosphatase | E. coli | GST | Human | 83.1 kDa | 14-642 |
| PTPMEG-2 | PTPMEG-2 | Phosphatase | E. coli | GST | Human | 62.5 kDa | 14-592 |
| PTPN22, active | PTPN22 | Phosphatase | E. coli | GST | Human | 63.3 kDa | 14-768 |
| PTPβ, active | PTPβ | Phosphatase | E. coli | GST | Human | 69 kDa | 14-948 |
| Pyk2, active | Pyk2 | Kinase | Sf21 insect cells | His6 | Human | 117.2 kDa | 14-567 |
| Raf-1 (truncated), active | c-RAF | Kinase | Sf21 insect cells | GST | Human | 65 kDa | 14-352 |
| Ret (V804L), active | Ret | Kinase | Sf21 insect cells | GST | Human | 79.2 kDa | 14-758 |
| Ret (V804M), active | Ret | Kinase | Sf21 insect cells | GST | Human | 79.2 kDa | 14-760 |
| Ret, active | Ret | Kinase | Sf21 insect cells | GST | Human | 79.2 kDa | 14-570 |
| RIPK1, active | RIPK1 | Kinase | Sf21 insect cells | His6 | Human | 37 kDa | 16-022-K |
| RIPK2, active | RIPK2 | Kinase | Sf21 insect cells | His6 | Human | 37.8 kDa | 14-612 |
| ROKα/ROCK-II, active | ROKα/ROCK-II | Kinase | Sf21 insect cells | His6 | Human | 63.3 kDa | 14-451 |
| ROKα/ROCK-II, active, rat | ROKα/ROCK-II | Kinase | Sf21 insect cells | His6 | Rat | 66 kDa | 14-338 |
| ROKβ/ROCK-I, active | ROKβ/ROCK-I | Kinase | Sf21 insect cells | His6 | Human | 61.4 kDa | 14-601 |
| Ron, active | Ron | Kinase | Sf21 insect cells | GST | Human | 74.2 kDa | 14-581 |
| Ros, active | Ros | Kinase | Sf21 insect cells | His6 | Human | 53.4 kDa | 14-527 |
| RPTPμ, active | RPTPμ | Phosphatase | E. coli | GST | Human | 61.9 kDa | 14-780 |
| Rse, active | Rse | Kinase | Sf21 insect cells | His6 | Human | 50.4 kDa | 14-535 |
| Rsk1/MAPKAP Kinase 1a, active | Rsk1 | Kinase | Sf21 insect cells | His6 | Human | 84 kDa | 14-509 |
| Rsk1/MAPKAP Kinase 1a, active, rat | Rsk1 | Kinase | Sf21 insect cells | His6 | Rat | 88 kDa | 14-479 |
| Rsk2/MAPKAP Kinase 1b, active | Rsk2 | Kinase | Sf21 insect cells | His6 | Human | 88 kDa | 14-480 |
| Rsk3, active | Rsk3 | Kinase | Sf21 insect cells | His6 | Human | 87 kDa | 14-462 |
| Rsk4, active | Rsk4 | Kinase | Sf21 insect cells | His6 | Human | 85.2 kDa | 14-702 |
| SAPK4, unactive | SAPK4 | Kinase | E. coli | GST | Human | 69 kDa | 14-250 |
| SBK1, active | SBK1 | Kinase | Sf21 insect cells | GST | Human | 74 kDa | 16-029-K |
| SGK1 (S422D), unactive | SGK1 | Kinase | Sf21 insect cells | His6 | Human | 48 kDa | 14-332 |
| SGK1 (δ1-59, S422D), active | SGK1 | Kinase | Sf21 insect cells | His6 | Human | 48 kDa | 14-331 |
| SGK2-(hu,54-end,S416D), unactive | SGK2 | Kinase | Sf21 insect cells | His6 | Human | 45.7 kDa | 14-636 |
| SGK3, active | SGK3 | Kinase | Sf21 insect cells | His6 | Human | 46.7 kDa | 14-647 |
| SGK3, unactive | SGK3 | Kinase | Sf21 insect cells | His6 | Human | 46.8 kDa | 14-648 |
| SHP-1 | SHP-1 | Phosphatase | E. coli | GST | Human | 95 kDa | 14-591 |

# Kinase & Phosphatase Products Target List

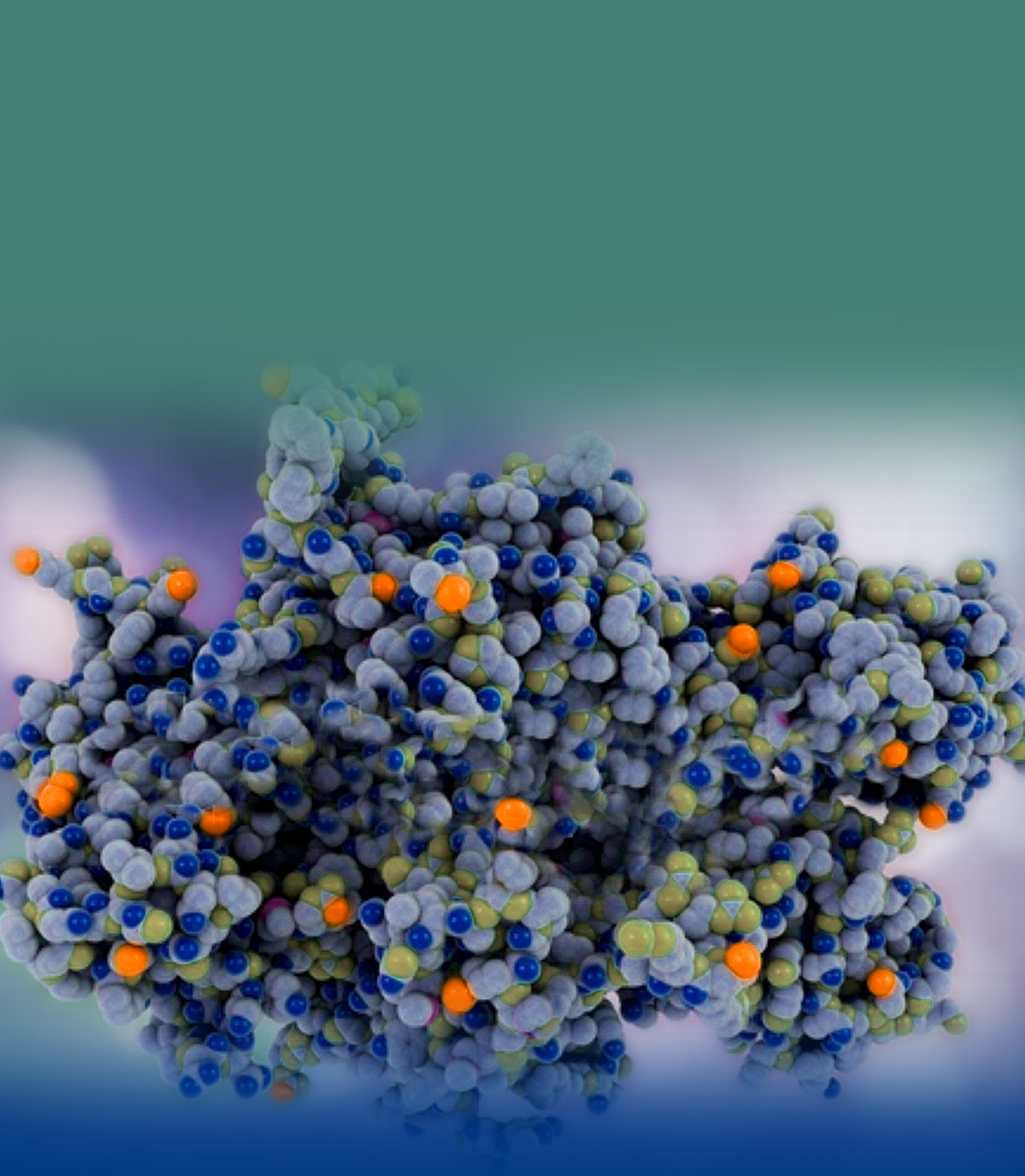
Email customerservicedrx@eurofins.com to request custom products ending in Catalog No. -K

2024

## Recombinant Kinases and Phosphatases

*Multiple sizes including bulk sizes are available*

| Product Name | Target | Target Type | Expression System | Tag | Species | Molecular Weight | Base Catalog No. |
|---|---|---|---|---|---|---|---|
| SHP-2 | SHP-2 | Phosphatase | E. coli | GST | Human | 63.7 kDa | 14-622 |
| SIK, active | SIK | Kinase | Sf21 insect cells | His6 | Human | 36.2 kDa | 14-652 |
| SIK2, active | SIK2 | Kinase | Sf21 insect cells | GST | Human | 59 kDa | 15-010 |
| SIK3, active | SIK3 | Kinase | Sf21 insect cells | GST, His6 | Human | 63 kDa | 15-011 |
| SLK, active | SLK | Kinase | Sf21 insect cells | His6 | Human | 46 kDa | 15-027-K |
| SNRK, active | SNRK | Kinase | Sf21 insect cells | His6 | Human | 58 kDa | 14-932 |
| Src (1-530), active | Src | Kinase | Sf21 insect cells | His6 | Human | 61.7 kDa | 14-746 |
| Src (T341M), active | Src | Kinase | Sf21 insect cells | His6 | Human | 61.7 kDa | 14-748 |
| Src, active | Src | Kinase | Sf21 insect cells | His6 | Human | 61.7 kDa | 14-326 |
| SRMS, active | SRMS | Kinase | Sf21 insect cells | GST | Human | 58 kDa | 16-036-K |
| SRPK1, active | SRPK1 | Kinase | E. coli | GST | Human | 100 kDa | 14-564 |
| SRPK2, active | SRPK2 | Kinase | E. coli | GST | Human | 100 kDa | 14-666 |
| STK16, active | STK16 | Kinase | Sf21 insect cells | GST, His6 | Human | 62 kDa | 16-035-k' |
| STK25, active | STK25 | Kinase | Sf21 insect cells | GST, His6 | Human | 63 kDa | 14-929 |
| STK32A, active | STK32A | Kinase | Sf21 insect cells | His6 | Human | 50 kDa | 16-011 |
| STK32B, active | STK32B | Kinase | Sf21 insect cells | His6 | Human | 53 kDa | 16-021-K |
| STK32C, active | STK32C | Kinase | Sf21 insect cells | His6 | Human | 59 kDa | 16-012-K |
| STK33, active | STK33 | Kinase | Sf21 insect cells | His6 | Human | 62.4 kDa | 14-671 |
| STK39, active | STK39 | Kinase | Sf21 insect cells | GST | Human | 91 kDa (STK39), 67 kDa (MO25α) | 16-049 |
| Syk, active | Syk | Kinase | Sf21 insect cells | His6 | Human | 73 kDa | 14-314 |
| TAF1L, active | TAF1L | Kinase | Sf21 insect cells | His6 | Human | 49 kDa | 16-024-K |
| TAK1-TAB1 fusion, active | Tak1 | Kinase | Sf21 insect cells | His6 | Human | 42.8 kDa | 14-600 |
| TAO1, active | TAO1 | Kinase | Sf21 insect cells | His6 | Human | 41 kDa | 14-749 |
| TAO2, active | TAO2 | Kinase | Sf21 insect cells | His6 | Human | 138.3 kDa | 14-736 |
| TAO3, active | TAO3 | Kinase | Sf21 insect cells | His6 | Human | 50.2 kDa | 14-745 |
| TBK1, active | TBK1 | Kinase | Sf21 insect cells | His6 | Human | 85.7 kDa | 14-628 |
| TCPTP | TCPTP | Phosphatase | E. coli | | Human | 39.7 kDa | 14-646 |
| Tec, activated | Tec | Kinase | Sf21 insect cells | His6 | Human | 57 kDa | 14-801 |
| TGFBR-1, active | TGFBR1 | Kinase | Sf21 insect cells | GST | Human | 62 kDa | 14-912 |
| TGFBR2, active | TGFBR2 | Kinase | Sf21 insect cells | His6 | Human | 45 kDa | 16-014-K |
| Tie2 (R849W), active | Tie2 | Kinase | Sf21 insect cells | His6 | Human | 42 kDa | 14-763 |
| Tie2 (Y1108F), active | Tie2 | Kinase | Sf21 insect cells | His6 | Human | 42 kDa | 14-766 |
| Tie2 (Y897S), active | Tie2 | Kinase | Sf21 insect cells | His6 | Human | 42 kDa | 14-764 |
| Tie2, active | Tie2 | Kinase | Sf21 insect cells | His6 | Human | 42 kDa | 14-540 |
| TLK1, active | TLK1 | Kinase | Sf21 insect cells | His6 | Human | 91 kDa | 14-938 |
| TLK2, active | TLK2 | Kinase | Sf21 insect cells | His6 | Human | 48.8 kDa | 14-739 |
| TMDP | TMDP | Phosphatase | E. coli | GST | Human | 49 kDa | 14-767 |
| TNIK, active | TNIK | Kinase | Sf21 insect cells | GST | Human | 69 kDa | 15-016-K |
| TRB2, active | TRB2 | Kinase | Sf21 insect cells | His6 | Human | 43 kDa | 16-016-K |
| TrkA, active | TrkA | Kinase | Sf21 insect cells | His6 | Human | 41 kDa | 14-571 |
| TrkB, active | TrkB | Kinase | Sf21 insect cells | His6 | Human | 42.9 kDa | 14-507 |
| TrkC, active | TrkC | Kinase | Sf21 insect cells | GST, His6 | Human | 64 kDa | 14-922 |
| TSSK1, active | TSSK1 | Kinase | Sf21 insect cells | His6 | Human | 46 kDa | 14-670 |
| TSSK2, active | TSSK2 | Kinase | Sf21 insect cells | His6 | Human | 44.8 kDa | 14-632 |
| TSSK3, active | TSSK3 | Kinase | Sf21 insect cells | His6 | Human | 31 kDa | 15-021 |
| TSSK4, active | TSSK4 | Kinase | Sf21 insect cells | GST | Human | 65 kDa | 15-017 |
| TTBK1, active | TTBK1 | Kinase | Sf21 insect cells | GST, His6 | Human | 82 kDa | 15-018-K |
| TTBK2, active | TTBK2 | Kinase | Sf21 insect cells | GST | Human | 65 kDa | 15-019 |
| TTK, active | TTK | Kinase | Sf21 insect cells | GST | Human | 124 kDa | 15-014 |
| Txk, active | Txk | Kinase | Sf21 insect cells | His6 | Human | 35.3 kDa | 14-761 |
| TYK2, active | TYK2 | Kinase | Sf21 insect cells | His6 | Human | 40 kDa | 14-924 |
| ULK1, active | ULK1 | Kinase | Sf21 insect cells | His6 | Human | 39 kDa | 14-959 |
| ULK2, active | ULK2 | Kinase | Sf21 insect cells | GST, His6 | Human | 62 kDa | 14-772 |
| ULK3, active | ULK3 | Kinase | Sf21 insect cells | His6 | Human | 62 kDa | 14-755 |
| VHR | VHR | Phosphatase | E. coli | GST | Human | 47.8 kDa | 14-594 |
| VRK1, active | VRK1 | Kinase | Sf21 insect cells | His6 | Human | 50 kDa | 16-033-K |
| VRK2, active | VRK2 | Kinase | Sf21 insect cells | His6 | Human | 43 kDa | 14-732 |
| Wee1, active | WEE1 | Kinase | Sf21 insect cells | GST, His6 | Human | 77 kDa | 14-925 |
| Wee1B, active | Wee1B | Kinase | Sf21 insect cells | His6 | Human | 67 kDa | 16-006-K |
| WNK1, active | WNK1 | Kinase | Sf21 insect cells | His6 | Human | 58 kDa | 16-007-K |
| WNK2, active | WNK2 | Kinase | Sf21 insect cells | His6 | Human | 41.2 kDa | 14-678 |
| WNK3, active | WNK3 | Kinase | Sf21 insect cells | His6 | Human | 53.1 kDa | 14-658 |
| WNK4, active | WNK4 | Kinase | Sf21 insect cells | His6 | Human | 54 kDa | 16-047-K |
| Yes, active | Yes | Kinase | Sf21 insect cells | His6 | Human | 63 kDa | 14-478 |
| YopH, active, Yersinia | YopH | Phosphatase | E. coli | GST | Yersinia | 77.4 kDa | 14-590 |
| ZAK, active | ZAK | Kinase | Sf21 insect cells | GST | Human | 119 kDa | 15-015 |
| ZAP-70, active | ZAP-70 | Kinase | Sf21 insect cells | His6 | Human | 70 kDa | 14-404 |
| ZIPK, active | ZIPK | Kinase | E. coli | GST | Human | 64.3 kDa | 14-608 |



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