

# Recombinant Human PTK-2 Protein Tyrosine Kinase 2, His-tagged

**Cat. No.** PTK2-1901H    **Lot. No.** (See product label)

## SPECIFICATION

|                          |                                                                                                                                                                                                                                                                                                                            |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>  | Recombinant Human PTK2 (a.a. 411-686) with N-terminal His tag, MW 36kDa, expressed in an Baculovirus infected Sf9 cell expression system.                                                                                                                                                                                  |
| <b>Species</b>           | Human                                                                                                                                                                                                                                                                                                                      |
| <b>Source</b>            | Sf9 Cells                                                                                                                                                                                                                                                                                                                  |
| <b>ProteinLength</b>     | 411-686 a.a.                                                                                                                                                                                                                                                                                                               |
| <b>Description</b>       | PTK2 is a cytoplasmic proteintyrosine kinase which is found concentrated in the focal adhesions.Activation of this gene may be an important early step in cell growth andintracellular signal transduction pathways triggered in response to certainneural peptides or to cell interactions with the extracellular matrix. |
| <b>Form</b>              | 25 mM Tris-HCl, pH8.0 + 100 mM NaCl + 0.05% Tween-20 + 50% glycerol + 3 mM DTT.                                                                                                                                                                                                                                            |
| <b>Purity</b>            | > 95% by SDS-PAGE                                                                                                                                                                                                                                                                                                          |
| <b>Specific Activity</b> | 100 U/mg. One unitis defined as the amount of enzyme that will phosphorylate 1 nmol of tyrosinesubstrate per minute at pH 7.4 and 30°C. Assay buffer: 50 mM HEPES, pH 7.4 +3 mM MgCl2 + 3 mM MnCl2 + 1 mM DTT + 3 ugNa-orthovanadate + 0.1 mM ATP + 30 ug/ml Poly (Glu:Tyr)4:1 substrate + 1 ug/ml recombinant PTK2.       |

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|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Storage</b>             | > 6 months at -80°C.                                                                                                                                                                                                                                                                                  |
| <b>OfficialSymbol</b>      | PTK2                                                                                                                                                                                                                                                                                                  |
| <b>GENE INFORMATION</b>    |                                                                                                                                                                                                                                                                                                       |
| <b>Gene Name</b>           | PTK2 PTK2 protein tyrosinekinase 2 [ Homo sapiens ]                                                                                                                                                                                                                                                   |
| <b>Synonyms</b>            | PTK2; PTK-2 protein tyrosinekinase 2; FAK; FADK; FAK1; pp125FAK; Focal adhesion kinase 1; FADK 1;Protein-tyrosine kinase 2; Protein-tyrosine kinase 2; EC 2.7.10.2                                                                                                                                    |
| <b>Gene ID</b>             | 5747                                                                                                                                                                                                                                                                                                  |
| <b>mRNA Refseq</b>         | NM_005607                                                                                                                                                                                                                                                                                             |
| <b>Protein Refseq</b>      | NP_005598                                                                                                                                                                                                                                                                                             |
| <b>MIM</b>                 | 600758                                                                                                                                                                                                                                                                                                |
| <b>UniProt ID</b>          | Q05397                                                                                                                                                                                                                                                                                                |
| <b>Chromosome Location</b> | 8q24                                                                                                                                                                                                                                                                                                  |
| <b>Pathway</b>             | Axon guidance; ErbB signalingpathway; Chemokine signaling pathway; Focal adhesion; Leukocytentransendothelial migration; Pathways in cancer; Regulation of actincytoskeleton; Small cell lung cancer; VEGF signaling pathway; Apoptosis; Axonguidance; Hemostasis; Integrin cell surface interactions |
| <b>Function</b>            | ATP binding; SH2 domainbinding; non-membrane spanning protein tyrosine kinase                                                                                                                                                                                                                         |

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activity; nucleotidebinding; protein binding; signal transducer activity; transferase activity

**PDBrendering based  
on 1k04.**

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