

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

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

SPECIFICATION

Product Overview	Recombinant Human PTK2 (a.a. 411-686) with N-terminal His tag, MW 36kDa, expressed in an Baculovirus infected Sf9 cell expression system.
Species	Human
Source	Sf9 Cells
ProteinLength	411-686 a.a.
Description	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.
Form	25 mM Tris-HCl, pH8.0 + 100 mM NaCl + 0.05% Tween-20 + 50% glycerol + 3 mM DTT.
Purity	> 95% by SDS-PAGE
Specific Activity	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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Storage	> 6 months at -80°C.
OfficialSymbol	PTK2
GENE INFORMATION	
Gene Name	PTK2 PTK2 protein tyrosinekinase 2 [Homo sapiens]
Synonyms	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
Gene ID	5747
mRNA Refseq	NM_005607
Protein Refseq	NP_005598
MIM	600758
UniProt ID	Q05397
Chromosome Location	8q24
Pathway	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
Function	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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