

# Recombinant Human PTK2B Protein Tyrosine Kinase 2 Beta, His-tagged

Cat. No. PTK2B-1904H Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant humanfull length PTK2B with N-terminal His tag.
<b>Species</b>	Human
<b>Source</b>	Sf9 Cells
<b>Description</b>	PTK2B is a cytoplasmic tyrosine kinaseinvolved in calcium-induced regulation of ion channels and activation of themap kinase signaling pathway. No special measures were taken to activate thiskinase.
<b>Form</b>	Liquid in 25 mMTris-HCl, pH 8.0 + 100 mM NaCl + 0.05% Tween-20 + 50% glycerol + 3 mM DTT.
<b>Molecular Weight</b>	120.0 kDa
<b>Purity</b>	> 90% asdetermined by SDS-PAGE analysis
<b>Biological Activity</b>	20 U/mg. One unit isdefined as the amount of enzyme that will phosphorylate 1 nmol of tyrosinesubstrate per minute at pH 7.4 and at 30°C. Assay buffer: 50 mM HEPES, pH 7.4+ 3 mM MgCl <sub>2</sub> + 3 mM MnCl <sub>2</sub> + 1 mM DTT + 3 mMNa-orthovanadate + 0.5 mM ATP + 30 ug/ml Poly (Glu:Tyr) 4:1 substrate + 4 ug/mlrecombinant PTK2B.
<b>Storage</b>	Stablefor 6 months in working aliquots at -80°C. Avoid repeated freeze-thaw cycles.

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<b>OfficialSymbol</b>	PTK2B
<b>Full Length</b>	Full L.
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	PTK2B PTK2B protein tyrosinekinase 2 beta [ Homo sapiens ]
<b>Synonyms</b>	PTK2B; PTK2B protein tyrosinekinase 2 beta; PTK2B protein tyrosine kinase 2 beta; CAK beta;calcium-dependent tyrosine kinase; cell adhesion kinase beta; focal adhesionkinase 2; proline-rich tyrosine kinase 2; protein kinase B; protein tyrosinekinase 2 beta; related adhesion focal tyrosine kinase; EC 2.7.10.2
<b>Gene ID</b>	2185
<b>mRNA Refseq</b>	NM_004103
<b>Protein Refseq</b>	NP_004094
<b>MIM</b>	601212
<b>UniProt ID</b>	Q14289
<b>Chromosome Location</b>	8p21.1
<b>Pathway</b>	Calcium signaling pathway;Chemokine signaling pathway; GnRH signaling pathway; Leukocytetransendothelial migration; Natural killer cell mediated cytotoxicity
<b>Function</b>	3-phosphoinositide-dependentprotein kinase binding; ATP binding; non-membrane spanning protein tyrosinekinase activity; nucleotide binding; protein complex binding;

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signaltransducer activity; transferase activity

Rendering based on  
PDB 2FO6.

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