

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

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

SPECIFICATION

Product Overview	Recombinant humanfull length PTK2B with N-terminal His tag.
Species	Human
Source	Sf9 Cells
Description	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.
Form	Liquid in 25 mMTris-HCl, pH 8.0 + 100 mM NaCl + 0.05% Tween-20 + 50% glycerol + 3 mM DTT.
Molecular Weight	120.0 kDa
Purity	> 90% asdetermined by SDS-PAGE analysis
Biological Activity	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 ₂ + 3 mM MnCl ₂ + 1 mM DTT + 3 mMNa-orthovanadate + 0.5 mM ATP + 30 ug/ml Poly (Glu:Tyr) 4:1 substrate + 4 ug/mlrecombinant PTK2B.
Storage	Stablefor 6 months in working aliquots at -80°C. Avoid repeated freeze-thaw cycles.

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OfficialSymbol	PTK2B
Full Length	Full L.
GENE INFORMATION	
Gene Name	PTK2B PTK2B protein tyrosinekinase 2 beta [Homo sapiens]
Synonyms	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
Gene ID	2185
mRNA Refseq	NM_004103
Protein Refseq	NP_004094
MIM	601212
UniProt ID	Q14289
Chromosome Location	8p21.1
Pathway	Calcium signaling pathway;Chemokine signaling pathway; GnRH signaling pathway; Leukocyttetrandothelial migration; Natural killer cell mediated cytotoxicity
Function	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

Renderingbased on
PDB 2FO6.

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