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

Cat. No. PTK2B-701H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PTK2B, full length, amino acids M1-E1009, N-terminally fused to GST-His6-Thrombin cleavage site, was expressed in*Sf9*insect cells.MW = 145,724 Da.
Species	Human
Source	Sf9 Cells
ProteinLength	1-1009 a.a.
Description	PYK2 (also known as FAK2/RAFTK) is a member of the focal adhesion PTK family. PYK2/FAK2 can be activated by a variety of extracellular signals that elevate intracellular calcium concentration, and by stress signals. Unlike FAK, which is widely expressed in various tissues and links transmembrane integrin receptors to intracellular pathways, PYK2/FAK2 is expressed mainly in the central nervous system and in cells derived from hematopoietic lineages.
Product Identity	PYK2 was confirmed as PYK2 by by mass spectroscopy LC-ESI-MS/MS (Protagen AG, Germany).
Purification	One-step affinity purification using GSH-agarose.
Storage Buffer	50 mM HEPES-NaOH, pH 7.5; 100 mM NaCl, 5 mM DTT, 4 mM reduced glutathione, 20% glycerol.

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Concentration	0.076 μg/μl (Bradford method using BSA as standard protein).
Specific Activity	6 pmol/μg×min.
Storage	-80°C. Avoid repeated freeze-thaw cycles!
Full Length	Full L.

GENE INFORMATION

Gene Name	PTK2B PTK2B protein tyrosine kinase 2 beta [Homo sapiens]
Synonyms	PTK2B; PTK2B protein tyrosine kinase 2 beta; PTK2B protein tyrosine kinase 2 beta; CAK beta; calcium-dependent tyrosine kinase; cell adhesion kinase beta; focal adhesion kinase 2; proline-rich tyrosine kinase 2; protein kinase B; protein tyrosine kinase 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;

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	Leukocyte transendothelial migration; Natural killer cell mediated cytotoxicity
Function	3-phosphoinositide-dependent protein kinase binding; ATP binding; non-membrane spanning protein tyrosine kinase activity; nucleotide binding; protein complex binding; signal transducer activity; transferase activity

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