

Recombinant Full Length Human PTPN1 protein, DDK-tagged

Cat. No. PTPN1-220H Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Human PTPN1 fused with DDK tag at C-terminal was expressed in Insect cells.

Species Human

Source Insect Cells

ProteinLength 1-435 a.a.

Description

The protein encoded by this gene is the founding member of the protein tyrosine phosphatase (PTP) family, which was isolated and identified based on its enzymatic activity and amino acid sequence. PTPs catalyze the hydrolysis of the phosphate monoesters specifically on tyrosine residues. Members of the PTP family share a highly conserved catalytic motif, which is essential for the catalytic activity. PTPs are known to be signaling molecules that regulate a variety of cellular processes including cell growth, differentiation, mitotic cycle, and oncogenic transformation. This PTP has been shown to act as a negative regulator of insulin signaling by dephosphorylating the phosphotyrosine residues of insulin receptor kinase. This PTP was also reported to dephosphorylate epidermal growth factor receptor kinase, as well as JAK2 and TYK2 kinases, which implicated the role of this PTP in cell growth control, and cell response to interferon stimulation. Two transcript variants encoding different isoforms have been found for this gene.

Form 50mM Tris-HCl, pH8.0, 100mM glycine, 10% glycerol.

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Molecular Mass	49.8 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration	>50 ug/mL as determined by microplate BCA method

GENE INFORMATION

Gene Name	PTPN1 protein tyrosine phosphatase, non-receptor type 1 [Homo sapiens]
Official Symbol	PTPN1
Synonyms	PTPN1; protein tyrosine phosphatase, non-receptor type 1; PTP1B; tyrosine-protein phosphatase non-receptor type 1; protein tyrosine phosphatase 1B; protein-tyrosine phosphatase 1B; protein tyrosine phosphatase, placental;
Gene ID	5770
mRNA Refseq	NM_002827
Protein Refseq	NP_002818
MIM	176885
UniProt ID	P18031

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