

Recombinant Full Length Human PTPN1 Protein, C-Flag-tagged

Cat. No. PTPN1-670HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human PTPN1 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.

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Molecular Mass	67.8 kDa
AA Sequence	MTSRRWFHPNITGVEAENLLLTRGVDGSFLARPSKSNPGDFTLSVRRNGAVTHIKIQ NTGDYYDLYGGEK FATLAELVQYYMEHHGQLKEKNGDVIELKYPLNCADPTSERW FHGHLSGKEAEKLLTEKGKHGSFLVRES QSHPGDFVLSVRTGDDKGESNDGKSKV THVMIRCQELKYDVGGGERFDSLTDLVEHYKKNPMVETLGTVL QLKQPLNTTRINA AEIESRVRELSKLAETTDKVKQGFWEETFELQQQECKLLYSRKEGQRQENKKNRY K NILPFDHTRVVLHDGDPNEPVS DYINANIIMPEFETKCNSKPKKSYIATQGCLQNT VNDFWRMV FQENS RVIVMTTKEVERGKSKCVKYWPDEYALKEYGVMRVRNVKES AAHDYTLRELKLSKVGQGNTERTVWQYHF RTWPDHGVPSDPGGVLD FLEEVHHK QESIMDAGPVVVHCSAGIGRTGTFIVIDILIDIIREKGVDCDIDV PKTIQMVR SQRSGM VQTEAQYRFIYMAVQHYIETLQRRIEEEQSKSRKGHEYTNIKYSLADQTS GDQSPL PPCTPTPPCAEMREDSARVYENVGLMQQKSFRTTRTRPLEQKLISEEDLAANDILDY KDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome, Phosphatase
Protein Pathways	Adipocytokine signaling pathway, Chronic myeloid leukemia, Epithelial cell signaling

in Helicobacter pylori infection, Jak-STAT signaling pathway, Leukocyte transendothelial migration, Natural killer cell mediated cytotoxicity, Neurotrophin signaling pathway, Renal cell carcinoma

Full Length Full L.

GENE INFORMATION

Gene Name PTPN1 protein tyrosine phosphatase non-receptor type 1 [Homo sapiens (human)]

Official Symbol PTPN1

Synonyms PTP1B

Gene ID 5770

mRNA Refseq NM_002827.4

Protein Refseq NP_002818.1

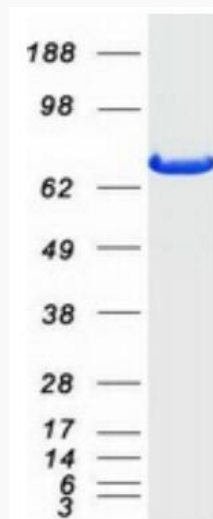
MIM 176885

UniProt ID Q06124

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Coomassie blue staining of purified PTPN11 protein.

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