Active Recombinant Full Length Human PTPN1 Protein, GST-tagged

Cat. No. PTPN1-1517H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length human PTPN1 was expressed by baculovirus in Sf9 insect cells using a N-terminal GST tag.
Species	Human
Source	Sf9 Cells
ProteinLength	Full length
Description	Protein tyrosine phosphatase nonreceptor, type 1 (PTPN1) is the founding member of the protein tyrosine phosphatase (PTP) family. PTPN1 catalyze the hydrolysis of the phosphate monoesters specifically from tyrosine residues. PTPN1 is known to be involved in signaling pathways that regulate a variety of cellular processes including cell growth and oncogenic transformation. PTPN1 also has been shown to act as a negative regulator of insulin signaling. PTPN1 has also been reported to dephosphorylate epidermal growth factor receptor kinase, which implicated the role of this phosphatase in cell growth control and cell response to interferon stimulation.
Form	Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Bio-activity	2200 nmol/min/mg
Molecular Mass	~71 kDa

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Purity	>85%
Applications	Phosphatase Assay, Western Blot
Storage	Store at –70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. Avoid freeze/thaw cycles.
Concentration	0.1μg/μl

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
Chromosome Location	20q13.1-q13.2

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Pathway	Adherens junction, organism-specific biosystem; Adherens junction, conserved biosystem; Calcineurin-regulated NFAT-dependent transcription in lymphocytes, organism-specific biosystem; Cytokine Signaling in Immune system, organism-specific biosystem; EGF receptor (ErbB1) signaling pathway, organism-specific biosystem; Growth hormone receptor signaling, organism-specific biosystem; Hemostasis, organism-specific biosystem;
Function	ephrin receptor binding; hydrolase activity; insulin receptor binding; protein binding; protein tyrosine phosphatase activity; protein tyrosine phosphatase activity; zinc ion binding;

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