

Active Recombinant Human PTPN11, GST-tagged

Cat. No. PTPN11-1518H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human PTPN11 (246-593) was expressed in Sf9 Insect Cells using a N-terminal GST tag.
Species	Human
Source	Sf9 Cells
ProteinLength	246-593 aa
Description	Mammalian PTPases can be subdivided into 1 of 2 broad categories: transmembrane receptor PTPases and intracellular PTPases. PTPN11 is one of the 2 closely related mammalian intracellular PTPases whose sequences encode 2 tandem SRC homology 2 (SH2) domains that are located at the amino-terminal side of a single PTPase catalytic domain. This PTP is widely expressed in most tissues and plays a regulatory role in various cell signaling events that are important for a diversity of cell functions, such as mitogenic activation, metabolic control, transcription regulation, and cell migration
Form	Recombinant protein stored in 20 mM MOPS, pH 7.5, 50 mM NaCl, 0.25 mM DTT, 0.1 mM PMSF, 30% glycerol.
Bio-activity	597 nmol/min/mg
Molecular Mass	~69 kDa

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Purity	>90%
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	0.1 µg/µl

GENE INFORMATION

Gene Name	PTPN11 protein tyrosine phosphatase, non-receptor type 11 [Homo sapiens]
Official Symbol	PTPN11
Synonyms	PTPN11; protein tyrosine phosphatase, non-receptor type 11; Noonan syndrome 1 , NS1; tyrosine-protein phosphatase non-receptor type 11; BPTP3; PTP2C; SH PTP2; SHP 2; SHP2; PTP-2C; protein tyrosine phosphatase-2; protein-tyrosine phosphatase 1D; protein-tyrosine phosphatase 2C; CFC; NS1; PTP-1D; SH-PTP2; SH-PTP3; MGC14433;
Gene ID	5781
mRNA Refseq	NM_002834
Protein Refseq	NP_002825
MIM	176876
UniProt ID	Q06124

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Chromosome Location	12q24.1
Pathway	Adaptive Immune System, organism-specific biosystem; Adipocytokine signaling pathway, organism-specific biosystem; Adipocytokine signaling pathway, conserved biosystem; Angiopoietin receptor Tie2-mediated signaling, organism-specific biosystem; Axon guidance, organism-specific biosystem; B Cell Receptor Signaling Pathway, organism-specific biosystem; CTLA4 inhibitory signaling, organism-specific biosystem;
Function	hydrolase activity; non-membrane spanning protein tyrosine phosphatase activity; non-membrane spanning protein tyrosine phosphatase activity; protein binding; protein tyrosine phosphatase activity;

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