

Active Recombinant Human PTPN11 protein, GST-tagged

Cat. No. PTPN11-31402TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PTPN11(224–529 aa) fused with GST tag at N-terminal was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	224-529 a.a.
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	25 mM Tris-HCl, pH 8.0, 75 mM NaCl, 0.05% Tween-20, 50% glycerol, 2 mM EDTA, 1 mM DTT, 10 mM glutathione.
Bio-activity	10 U/g
Molecular Mass	62 kDa

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AA Sequence	MSPILGYWKIKGLVQPTRLLEYLEEKYEEHLYERDEGDKWRNKKFELGLEFPNLPY YIDGDVKLTQSMARIYIADKHNMLGGCPKERAIEISMLEGAVLDIRYGVSRAYSKD TLKVDFLSKLPKMFEDRLCHKTYLNGDHVTHPDFMLYDALDVVLYMDPMCLDA FVKLVCFKKRIEAIQIDKYLKSSKYAWPLQGWQATFGGGDHPPKSDLVPRGSASA EIESRVRELSKLAETTDKVKQGFWEFETLQQQECKLLYSRKEGQRQENKNKNRYK NILPFDHTRVVLHDGDPNEPVSDYINANIIMPEFETKCNNSPKKSYIATQGCLQNTV NDFWRMVFQENSRVIVMTTKEVERGKSKCVKYWPDEYALKEYGVMRVRNVKESAA HDYTLRELKLSKVGQGNTERTVWQYHFRTWPDHGVSPDPGGVLDLFLEEVHHKQES IMDAGPVVVHCSAGIGRTGTFIVIDILIDIIREKGVDCDIDVPKTIQMVRSQRSGMVQTE AQYRFIYMAVQHYIETLQRRILE
Purity	> 90%
Unit Definition	One unit will hydrolyze 1 nmol p-nitrophenyl phosphate per minute at pH 7.4 and 30 centigrade.
Applications	Useful for the study of enzyme kinetics and regulation, to dephosphorylate target substrates and for screening inhibitors.
Storage	>12 months at -80 centigrade. Avoid freeze/thaw cycles.
Concentration	0.73 mg/ml
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; BTP3; PTP2C; SH PTP2;

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	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
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;