

Tyrosine Phosphatase Non Receptor Type-6 Active Protein | PTPN6 active protein

Recombinant Human Protein Tyrosine Phosphatase Non Receptor Type-6

CATALOG #
AAA38392

HOST
E Coli

PRODUCT SYNONYMS

Tyrosine Phosphatase Non Receptor Type-6; Recombinant Human Protein Tyrosine Phosphatase Non Receptor Type-6; PTPN6 Human; Protein Tyrosine Phosphatase Non Receptor Type-6 Human Recombinant; Tyrosine-protein phosphatase non-receptor type 6; EC 3.1.3.48; Protein-tyrosine phosphatase 1C; PTP-1C; Hematopoietic cell protein-tyrosine phosphatase; SH-PTP1; Protein-tyrosine phosphatase SHP-1; PTPN6; HCP; HCPH; SHP1; HPTP1C; SHP-1L; PTPN6 active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	Greater than 95.0% as determined by SDS-PAGE.
Form/Format	The protein contains 25mM Tris-HCl, pH 7.5, 2mM b-mercaptoethanol, 1mM EDTA, 1mMDTT and 20%Glycerol. Sterile filtered colorless solution.
Sequence	MGFWEEFESL QKQEVKNLHQ RLEGQRPENK GKNRYKNILP FDHSRVLQG RDSNIPGSDY INANYIKNQL LGPDENAKTY IASQGCLEAT VNDFWQMAWQ ENSRVIVMTT REVEKGRNKC VPYWPEVGMQ RAYGPYSVTN CGEHDTEYK LRTLQVSPLD NGDLIREIWH YQYLSWPDHG VPSEPGGVLS FLDQINQRQE SLPHAGPIIV HCSAGIGRTG TIIVIDMLME NISTKGLDCD IDIQKTIQMV RAQRSGMVQT EAQYKFIYVA IAQFIETTKK KLEVLQSQKG QESEYGNITY
Sequence Length	595
Unit Defenition	One unit will hydrolyze 1nanomole of p-nitrophenylphosphatate per minute at pH 7.5 at 37 degree C using 10mM of substrate.
Activity	>5,000 U/mg of PTPN6.
Preparation and Storage	Store at 4 degree C if entire vial will be used within 2-4 weeks. Store, frozen at -20 degree C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for PTPN6 active protein	Description: PTPN6 Human Recombinant produced in E Coli is a single,non-glycosylated polypeptide chain containing 300 amino acids and having a molecular mass of 34.3 kDa. The protein coding region of the catalytic domain of PTPN6 (amino acids 243-541). The catalytic domain of PTPN6 was overexpressed as insoluble protein aggregates (inclusion bodies). The recombinant PTPN6 protein was purified by FPLC gel-filtration chromatography, after refolding of the isolated inclusion bodies in a redox buffer. Additional amino acid(Met) is attached at N-terminus. Introduction: PTPN6 is a member of the protein tyrosine phosphatase (PTP) family. PTPs are known to be signaling molecules that regulate a variety of cellular processes including cell growth, differentiation, mitotic cycle, and oncogenic transformation. N-terminal part of this PTP contains two tandem Src homolog (SH2) domains, which act as protein phospho-tyrosine binding domains, and mediate the interaction of this PTP with its substrates. This PTP is expressed primarily in hematopoietic cells, and functions as an important regulator of multiple signaling pathways in hematopoietic cells. This PTP has been shown to interact with, and dephosphorylate a wide spectrum of phospho-proteins involved in hematopoietic cell signaling. Multiple alternatively spliced variants of this gene, which encode distinct isoforms, have been reported.
Product Categories/Family for PTPN6 active protein	Protein Kinases; Enzymes; Phosphatase

NCBI AND UNIPROT INFORMATION

NCBI GI #	18104989
NCBI GeneID	5777
NCBI Accession #	NP_002822.2
NCBI GenBank Nucleotide #	NM_002831.5
UniProt Accession #	P29350; Q969V8; Q9UK67; A8K306; G3V0F8
Molecular Weight	70,131 Da
NCBI Official Full Name	tyrosine-protein phosphatase non-receptor type 6 isoform 1
NCBI Official Synonym Full Names	protein tyrosine phosphatase, non-receptor type 6
NCBI Official Symbol	PTPN6
NCBI Official Synonym Symbols	HCP; HCPH; SHP1; SHP-1; HPTP1C; PTP-1C; SHP-1L; SH-PTP1
NCBI Protein Information	tyrosine-protein phosphatase non-receptor type 6; hematopoietic cell phosphatase; hematopoietic cell protein-tyrosine phosphatase; protein-tyrosine phosphatase 1C; protein-tyrosine phosphatase SHP-1
UniProt Protein Name	Tyrosine-protein phosphatase non-receptor type 6
UniProt Gene Name	PTPN6
UniProt Synonym Gene Names	HCP; PTP1C; PTP-1C
UniProt Entry Name	PTN6_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/e-coli-ptpn6-active-protein/tyrosine-phosphatase-non-receptor-type-6/38392>