

Recombinant Human PTPN6 protein, His-tagged

Cat. No. PTPN6-222H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human PTPN6(Lys243-Ile541), transcript variant 1, fused with His tag at N-terminal was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Lys243-Ile541
Description	The protein encoded by this gene 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.
Form	25mM Tris-HCl, 2mM β -ME, 1mM EDTA, 1mM DTT, 20% Glycerol, pH 7.5.
Molecular Mass	35.4 kDa

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Purity	>95% as determined by SDS-PAGE and Coomassie blue staining
Storage	Avoid repeated freeze-thaw cycles. Stable for at least 3 months from receipt of products under proper storage and handling conditions.
Concentration	>50 ug/mL as determined by microplate BCA method
GENE INFORMATION	
Gene Name	PTPN6 protein tyrosine phosphatase, non-receptor type 6 [Homo sapiens]
Official Symbol	PTPN6
Synonyms	PTPN6; protein tyrosine phosphatase, non-receptor type 6; tyrosine-protein phosphatase non-receptor type 6; HCP; HCPH; PTP 1C; SHP 1; SHP1; hematopoietic cell phosphatase; protein-tyrosine phosphatase 1C; protein-tyrosine phosphatase SHP-1; hematopoietic cell protein-tyrosine phosphatase; SHP-1; HPTP1C; PTP-1C; SHP-1L; SH-PTP1;
Gene ID	5777
mRNA Refseq	NM_002831
Protein Refseq	NP_002822
MIM	176883
UniProt ID	P29350