

Recombinant Human PTPN7 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. PTPN7-4695H Lot. No. (See product label)

SPECIFICATION

Product Overview	PTPN7 MS Standard C13 and N15-labeled recombinant protein (NP_542155) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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. This gene is preferentially expressed in a variety of hematopoietic cells, and is an early response gene in lymphokine stimulated cells. The non-catalytic N-terminus of this PTP can interact with MAP kinases and suppress the MAP kinase activities. This PTP was shown to be involved in the regulation of T cell antigen receptor (TCR) signaling, which was thought to function through dephosphorylating the molecules related to MAP kinase pathway. Multiple alternatively spliced transcript variants have been found for this gene.
Molecular Mass	45 kDa
AA Sequence	MGASFWPIRQAREQQRRALSFRQTSWLSEPPPLGPAPHLMSVQAHGGRSRAQPLTL SLGAAMTQPPPEKTPAKKHVRLQERRGSNVALMLDVRSLGAVEPICSVNTPREVTL HFLRTAGHPLTRWALQRQPPSPKQLEEEFLKIPSNFVSPEDLDIPGHASKDRYKTILP

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NPQSRVCLGRAQSQEDGDYINANYIRGYDGKEKVYIATQGPMPNTVSDFWEMVWQ
 EEVSLIVMLTQLREGKEKCVHYWPTEEETYGPFQIRIQDMKECPEYTVRQLTIQYQE
 ERRSVKHILFSAWPDHQTPEAGPLLRVAEVEESPETAHPGPIVVHCSAGIGRTG
 CFIATRIGCQQLKARGEVDILGIVCQLRLDRGGMIQTAEQYQFLHHTLALYAGQLPEE
 PSPTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name [PTPN7 protein tyrosine phosphatase non-receptor type 7 \[Homo sapiens \(human\) \]](#)

Official Symbol [PTPN7](#)

Synonyms PTPN7; protein tyrosine phosphatase, non-receptor type 7; tyrosine-protein phosphatase non-receptor type 7; HEPTP; LC PTP; dual specificity phosphatase 1; protein-tyrosine phosphatase LC-PTP; hematopoietic protein-tyrosine phosphatase; protein-tyrosine phosphatase, nonreceptor-type, stress induced; LPTP; PTPNI; BPTP-4; LC-PTP; FLJ18703;

Gene ID [5778](#)

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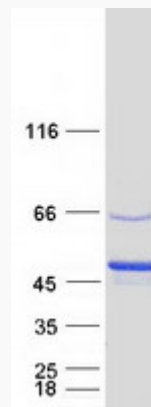
mRNA Refseq [NM_080588](#)

Protein Refseq [NP_542155](#)

MIM [176889](#)

UniProt ID [P35236](#)

SDS-PAGE



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