Recombinant Human PTPN7

Cat. No. PTPN7-26537TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length HePTP / PTPN7 protein (Human), was expressed in E coli using an N-terminal tag, MW 67 kDa.
Species	Human
Source	E.coli
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.
Tissue specificity	Expressed exclusively in thymus and spleen.
Form	Liquid
Storage buffer	Preservative: NoneConstituents: 30% Glycerol, 50mM Sodium chloride, 20mM MOPS, 0.25mM DTT, 0.1mM PMSF, pH 7.5

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Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequence Similarities	Belongs to the protein-tyrosine phosphatase family. Non-receptor class subfamily.Contains 1 tyrosine-protein phosphatase domain.
Full Length	Full L.

GENE INFORMATION

Gene Name	PTPN7 protein tyrosine phosphatase, non-receptor type 7 [Homo sapiens]
Official Symbol	PTPN7
Synonyms	PTPN7; protein tyrosine phosphatase, non-receptor type 7; tyrosine-protein phosphatase non-receptor type 7; HEPTP; LC PTP;
Gene ID	5778
mRNA Refseq	NM_001199797
Protein Refseq	NP_001186726
MIM	176889
Uniprot ID	P35236
Chromosome Location	1q32.1
Pathway	Downstream signaling in naive CD8+ T cells, organism-specific biosystem; MAPK signaling pathway, organism-specific biosystem; MAPK signaling pathway, organism-

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	specific biosystem; MAPK signaling pathway, conserved biosystem; Ras signaling in the CD4+ TCR pathway, organism-specific biosystem;
Function	hydrolase activity; protein tyrosine phosphatase activity;

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