

## Recombinant Human PTPN7

**Cat. No.** PTPN7-26538TH    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant fusion protein, corresponding to amino acids 79-358 of Human HePTP / PTPN7.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	79-358 a.a.
<b>Description</b>	<p>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.</p>
<b>Tissue specificity</b>	Expressed exclusively in thymus and spleen.
<b>Form</b>	Liquid
<b>Purity</b>	>95% by SDS-PAGE

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<b>Storage buffer</b>	Preservative: None Constituents: 45% Glycerol, 50mM Tris HCl (pH 8.0), 5mM DTT, 5mM Reduced Glutathione, 150mM Sodium Chloride.
<b>Storage</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
<b>Sequences of amino acids</b>	Fusion protein comprising amino acids 79-358 of HePTP, tagged at the N-terminus with GST.
<b>Sequence Similarities</b>	Belongs to the protein-tyrosine phosphatase family. Non-receptor class subfamily. Contains 1 tyrosine-protein phosphatase domain.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">PTPN7 protein tyrosine phosphatase, non-receptor type 7 [ Homo sapiens ]</a>
<b>Official Symbol</b>	<a href="#">PTPN7</a>
<b>Synonyms</b>	PTPN7; protein tyrosine phosphatase, non-receptor type 7; tyrosine-protein phosphatase non-receptor type 7; HEPTP; LC PTP;
<b>Gene ID</b>	<a href="#">5778</a>
<b>mRNA Refseq</b>	<a href="#">NM_001199797</a>
<b>Protein Refseq</b>	<a href="#">NP_001186726</a>
<b>MIM</b>	<a href="#">176889</a>
<b>Uniprot ID</b>	<a href="#">P35236</a>
<b>Chromosome Location</b>	1q32.1

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**Pathway**

Downstream signaling in naive CD8+ T cells, organism-specific biosystem; MAPK signaling pathway, organism-specific biosystem; MAPK signaling pathway, organism-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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