

#### Full-Length

# PTPN7 (Human) Recombinant Protein (P01)

Catalog # H00005778-P01 Size

Size 25 ug, 10 ug

## Applications



Specification	
Product Description	Human PTPN7 full-length ORF ( AAH01746, 1 a.a 360 a.a.) recombinant protein with GST-tag at N -terminal.
Sequence	MVQAHGGRSRAQPLTLSLGAAMTQPPPEKTPAKKHVRLQERRGSNVALMLDVRSLGAVEPICS VNTPREVTLHFLRTAGHPLTRWALQRQPPSPKQLEEEFLKIPSNFVSPEDLDIPGHASKDRYKTIL PNPQSRVCLGRAQSQEDGDYINANYIRGYDGKEKVYIATQGPMPNTVSDFWEMVWQEEVSLIVM LTQLREGKEKCVHYWPTEEETYGPFQIRIQDMKECPEYTVRQLTIQYQEERRSVKHILFSAWPDHQ TPESAGPLLRLVAEVEESPETAAHPGPIVVHCSAGIGRTGCFIATRIGCQQLKARGEVDILGIVCQL RLDRGGMIQTAEQYQFLHHTLALYAGQLPEEPSP
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	65.23
Interspecies Antigen Sequence	Mouse (92); Rat (91)
Preparation Method	in vitro wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCI, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

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#### **Product Information**

Storage Instruction

Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Note

Best use within three months from the date of receipt of this protein.

#### Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

### Gene Info — PTPN7

Entrez GenelD	<u>5778</u>
GeneBank Accession#	<u>BC001746.1</u>
Protein Accession#	AAH01746
Gene Name	PTPN7
Gene Alias	BPTP-4, HEPTP, LC-PTP, LPTP, PTPNI
Gene Description	protein tyrosine phosphatase, non-receptor type 7
Omim ID	<u>176889</u>
Gene Ontology	Hyperlink
Gene Summary	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 c ell growth, differentiation, mitotic cycle, and oncogenic transformation. This gene is preferentially e xpressed in a variety of hematopoietic cells, and is an early response gene in lymphokine stimulat ed cells. The noncatalytic 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 recep tor (TCR) signaling, which was thought to function through dephosphorylating the molecules relate d to MAP kinase pathway. Two alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq



#### **Publication Reference**

 Inhibitor of the Tyrosine Phosphatase STEP Reverses Cognitive Deficits in a Mouse Model of Alzheimer's <u>Disease.</u>

Xu J, Chatterjee M, Baguley TD, Brouillette J, Kurup P, Ghosh D, Kanyo J, Zhang Y, Seyb K, Ononenyi C, Foscue E, Anderson GM, Gresack J, Cuny GD, Glicksman MA, Greengard P, Lam TT, Tautz L, Nairn AC, Ellman JA, Lombroso PJ.

PLoS Biology 2014 Aug; 12(8):e1001923.

Application: Func, Recombinant proteins

#### Pathway

• MAPK signaling pathway