



# Recombinant Human Tyrosine-protein phosphatase non-receptor type 7 (PTPN7)

<b>Product Code</b>	CSB-MP019044HU
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Uniprot No.</b>	P35236
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	>85% (SDS-PAGE)
<b>Sequence</b>	MVQAHGGRSR AQPLTSLGA AMTQPPPEKT PAKKHVRLQE RRGSNVALML DVRSLGAVEP ICSVNTPREV TLHFLRTAGH PLTRWALQRQ PPSPKQLEEE FLKIPSNFVS PEDLDIPGHA SKDRYKTILP NPQSRVCLGR AQSQEDGDYI NANYIRGYDG KEKVYIATQG PMPNTVSDFW EMVWQEEVSL IVMLTQLREG KEKCVHYWPT EEETYGPFQI RIQDMKECPE YTVRQLTIQY QEERRSVKHI LFSAWPDHQT PESAGPLLRL VAEVEESPET AAHPGPIVVH CSAGIGRTGC FIATRIGCQQ LKARGEVDIL GIVCQLRLDR GGMIQTAEQY QFLHHTLALY AGQLPEEPSP
<b>Source</b>	Mammalian cell
<b>Target Names</b>	PTPN7
<b>Protein Names</b>	Recommended name: Tyrosine-protein phosphatase non-receptor type 7 EC=3.1.3.48 Alternative name(s): Hematopoietic protein-tyrosine phosphatase Short name= HEPTP Protein-tyrosine phosphatase LC-PTP
<b>Expression Region</b>	1-360
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	Full length protein
<b>Target Details</b>	This protein 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 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 receptor (TCR) signaling, which was thought to function through dephosphorylating the molecules related to MAP kinase pathway. Two alternatively spliced transcript variants encoding different isoforms have been found for this gene.
<b>Reconstitution</b>	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a



concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

### Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.

Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.