



Recombinant Rat Tyrosine-protein phosphatase non-receptor type 7 (Ptpn7)

Product Code	CSB-EP019044RA-B
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Uniprot No.	P49445
Product Type	Recombinant Protein
Immunogen Species	Rattus norvegicus (Rat)
Purity	>85% (SDS-PAGE)
Sequence	MVQACEGRSR AQLPTLSLGA DMTQPPPAKA PAKKHVRLQE RRGSSVALML DVRSLGTVEP ICSVNTPREV TLHFLRTAGH PLTRWTLQHQ PPSPKQLEEE FLKIPSNFVN PEDLDIPGHA SKDRYKTILP NPQSRVCLGR AHSQEDSDYI NANYIRGYDG KEKVYIATQG PMPNTVADFW EMVWQEDVSL IVMLTQLREG KEKCVHYWPT EEEAYGPFQI RIQGMKEHPE YTVRHLLTIQH QQECRSVKHI LFSAWPDHQT PESAGPLLRL VAEVETPETA ANSGPIVVHC SAGIGRTGCF IATRIGCQQL KARGEVDILG IVCQLRLDRG GMIQTAEQYQ FLHHTLALYA AQLPPETDP
Source	E.coli
Target Names	Ptpn7
Protein Names	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
Expression Region	1-359
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.
Protein Length	Full length protein
Target Details	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.
Reconstitution	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.