

# Recombinant human PTPN7 protein

Catalog Number: ATGP1453

## PRODUCT INFORMATION

---

### Expression system

E.coli

### Domain

1-360aa

### UniProt No.

P35236

### NCBI Accession No.

NP\_002823.2

### Alternative Names

Tyrosine-protein phosphatase non-receptor type 7, Tyrosine-protein phosphatase non-receptor type 7, BPTP-4, HEPTP, LC-PTP, LPTP, PTPNI

## PRODUCT SPECIFICATION

---

### Molecular Weight

43.1 kDa (384aa) confirmed by MALDI-TOF

### Concentration

0.5mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 20% glycerol, 0.1M NaCl, 1mM DTT

### Purity

> 90% by SDS-PAGE

### Tag

His-Tag

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

---

### Description

PTPN7, also known as tyrosine-protein phosphatase non-receptor type 7 isoform 1, acts preferentially on tyrosine-phosphorylated MAPK1. This protein plays a role in the regulation of T and B-lymphocyte development and signal transduction. Recombinant human PTPN7 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography.

## Recombinant human PTPN7 protein

Catalog Number: ATGP1453

### Amino acid Sequence

<MGSSHHHHHH SSGLVPRGSH MGS>MVQAHG GRSRAQPLTL SLGAAMTQPP PEKTPAKKHV RLQERRGSNV  
ALMLDVRS LG AVEPICSVNT PREVTLHFLR TAGHPLTRWA LQRQPPSPKQ LEEFLKIPS NFVSPEDLDI PGHASKDRYK  
TILPNQSRV CLGRAQSQED GDYINANYIR GYDGKEKVYI ATQGMPNTV SDFWEMVWQE EVSLIVMLTQ LREGKEKCVH  
YWPTEEETYG PFQIRIQDMK ECPEYTVRQL TIQYQEERS VKHILFSAWP DHQTPESAGP LLRLVAEVEE SPETAHPGP  
IVVHCSAGIG RTGCFIATRI GCQQLKARGE VDILGIVCQL RLDRGGMIQT AEQYQLHHT LALYAGQLPE EPSP

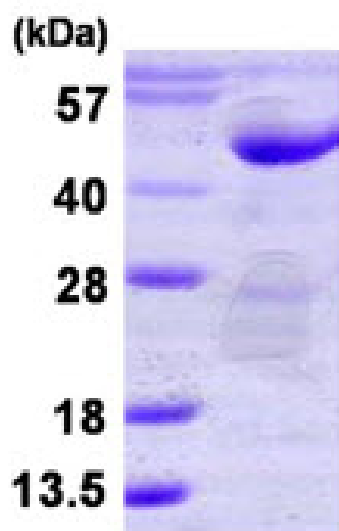
### General References

Pettiford S.M., et al. (2000) Oncogene. 19:858-869

Nika K., et al. (2004) Biochem. J. 378:335-342

## DATA

### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)