

PTPN7, human recombinant

CATALOG #:	7813-10	10 µg
ALTERNATE NAMES:	Tyrosine-protein phosphatase non-receptor type 7, BPTP-4, HEPTP, LC-PTP, LPTP, PTPNI	
SOURCE:	E. Coli	
PURITY:	> 90% by SDS - PAGE	
MOL. WEIGHT:	43.1 kDa (384 aa, 1-360 aa + His Tag)	
FORM:	Liquid	
FORMULATION:	0.5 mg/ml solution in 20 mM Tris-HCl buffer (pH 8.0) containing 20% glycerol, 0.1 M NaCl and 1 mM DTT	

STORAGE CONDITIONS:

Can be stored at 4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

DESCRIPTION:

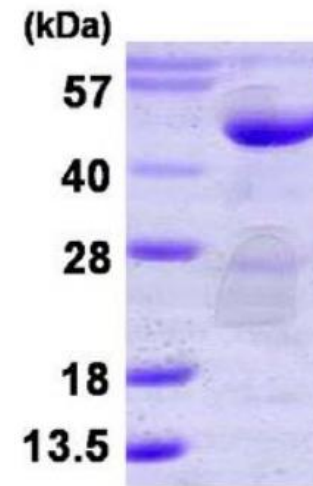
PTPN7, also known as tyrosine-protein phosphatase non-receptor type 7 isoform 1, acts preferentially on tyrosine-phosphorylated MAPK1. This protein plays a role in the regulation of T and B-lymphocyte development and signal transduction. Recombinant human PTPN7 protein, fused to His-tag at N-terminus,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

AMINO ACID SEQUENCE:

MGSSHHHHHH SGLVPRGSH MGSMMVQAHG GRSRAQPLTL SLGAAMTQPP
PEKTPAKKHV RLQERRGSNV ALMLDVRSLG AVEPICSVNT PREVTLHFLR TAGHPLTRWA
LQRQPPSPKQ LEEEFKIPS NRVSPEDLDI PGHASKDRYK TILPNPQSRV CLGRAQSQED
GDYINANYIR GYDGKEKYYI ATQGMPNTV SDFWEMVWQE EVSLIVMLTQ
LREGKEKCVH YWPTEETYG PFQIRIQDMK ECPEYTVRQL TIYQEERRS VKHILFSAWP
DHQTPESAGP LLRLVAEVEE SPETAHPGP IVVHCSAGI RTGCFIATRI GCQQLKARGE
VDILGIVCQL RLDGRGMIQT AEQYQLHHT LALYAGQLPE EPSF

BIOLOGICAL ACTIVITY:

Specific activity is > 2000 unit/mg. Enzymatic activity was confirmed by measuring the amount of enzyme hydrolyzing 1 nmole of p-nitrophenyl phosphate (pNPP) per minute at 37°C, pH7.5 using 10 mM of substrate.

**15% SDS-PAGE (3µg)**

Human Recombinant PTPN7

RELATED PRODUCTS:

- Human Recombinant PTP1B (Cat. No. 6301-100)
- Human Recombinant SHP-1 (Cat. No. 6302-100)
- PhoshoSeek™ PTP1B Fluorometric Assay Kit (Cat. No. K707-400)

FOR RESEARCH USE ONLY! Not to be used in humans.