

Human Recombinant PTP1B

CATALOG #:	6301-100	100 µg
ALTERNATE NAMES:	Protein tyrosine phosphatase, non-receptor type 1, PTPN1, Protein-tyrosine phosphatase 1B.	
SOURCE:	E.Coli	
PURITY:	> 95% by SDS - PAGE	
MOL. WEIGHT:	37.3 kDa (321 amino acids)	

FORMULATION:

1 mg/ml solution in 25 mM Tris-HCl buffer (pH 7.5) containing 1 mM DTT, 2 mM β mercaptoethanol, 1 mM EDTA, 20% Glycerol.

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:

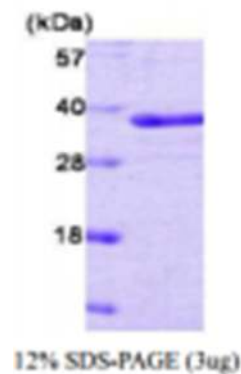
The protein coding region of the catalytic domain of PTP-1B (amino acids 1-321) was cloned into an E. coli expression vector. The catalytic domain of PTP-1B was overexpressed in E. coli as a soluble protein, and it was purified by conventional column chromatographic techniques.

BIOLOGICAL ACTIVITY:

6,000-12,000 units/mg. Enzymatic activity was confirmed by measuring the amount of enzyme hydrolyzing 1 nmole of p-nitrophenyl phosphate (pNPP) per minute at 37°C, pH 7.5 using 10 mM of substrate.

AMINO ACID SEQUENCE:

MEMEKEFEQI DKSGSWAAIY QDIRHEASDF PCRVAKLPKN KNRNRYRDVS PFDHSRIKLH
QEDNDYINAS LIKMEEAQRS YILTQGPLPN TCGHFWEMVW EQKSRGVVML RVMEKGSLLK
CAQYWPQKEE KEMIFEDTNL KLTLISEDIK SYTVRQLEL ENLTTQETRE ILHFHYTTWP
DFGVPEPAS FLNFLFKVRE SGLSPEHGP VVHCSAGIG RSGTFCLADT CLLLMDKRKD
PSSVDIKKVL LEMRKFRMGL IQTADQLRFS YLAVIEGAKF IMGDSSVQDQ WKELSHEDLE
PPPEHIPPPP RPPKRILEPH N



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

RELATED PRODUCTS:

- bpV(phen) (Cat. No. 1793-5)
- bpV(pic) (Cat. No. 1794-5)
- PTP1B Antibody (Cat. No. 3171-100)
- PTP1B Antibody (Cat. No. 3174-100)
- PTP1B Antibody (Clone 107AT531) (Cat. No. 3122-100)
- Phosphoseek™ PTP1B Assay kit (Cat. No. K707-400)