

# Recombinant human PTP1B protein

Catalog Number: PTB2001

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-321aa

### UniProt No.

P18031

### NCBI Accession No.

NP\_002818.1

### Alternative Names

Protein tyrosine phosphatase non-receptor type 1, PTPN1, PTP1B, PTP-1B, Protein Tyrosine Phosphatase 1B, EC 3.1.3.48, Protein-tyrosine phosphatase1B, Tyrosine-protein phosphatase non-receptor type 1, Protein tyrosine phosphatase non-receptor type 1, Protein Tyrosine Phosphatase Non Receptor Type-1

## PRODUCT SPECIFICATION

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### Molecular Weight

37.3 kDa (321aa)

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 25mM Tris-HCl buffer (pH 7.5) containing 2mM beta-mercaptoethanol, 1mM EDTA1mM DTT, 20% glycerol

### Purity

> 95% by SDS-PAGE

### Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

### Biological Activity

Specific activity is > 10,000unit/mg, and is defined as the amount of enzyme that hydrolyze 1.0nmole of p-nitrophenyl phosphate (pNPP) per minute at pH 7.5 at 37C.

### Tag

Non-Tagged

### Application

SDS-PAGE, Enzyme Activity

### 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.

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## BACKGROUND

### 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.

### Amino acid Sequence

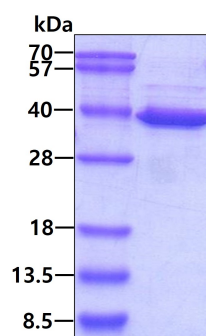
MEMEKEFEQI DKSGSWAAIY QDIRHEASDF PCRVAKLPKN KNRNRYRDVS PFDHSRIKLH QEDNDYINAS LIKMEEAQRS  
YILTQGPLPN TCGHFWEMVW EQKSRGVVML NRVMEKGSLLK CAQYWPQKEE KEMIFEDTNL KLTLISEDIK SYTTRQLEL  
ENLTTQETRE ILHFHYTTWP DFGVPESPAS FLNFLFKVRE SGSLSPHGP VVHCSAGIG RSGTFCLADT CLLLMDKRKD  
PSSVDIKKVL LEMRKFRMGL IQTADQLRFS YLAVIEGAKF IMGDSSVQDQ WKELSHEDLE PPPEHIPPPP RPPKRILEPH N

### General References

Chernoff J., et al. (1990) Proc. Natl. Acad. Sci. uSA. 87, 2735-9

## DATA

### SDS-PAGE



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