

# 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

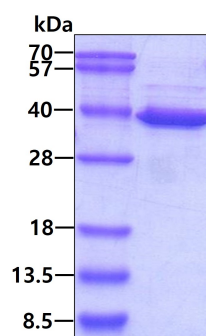
MEMEKEFEQI DKSGSWAAIY QDIRHEASDF PCRVAKLPKN KNRNRYRDVS PFDHSRIKLH QEDNDYINAS LIKMEEAQRS  
YILTQGPLPN TCGHFWEMVW EQKSRGVVML NRVMEKGS�K CAQYWPQKEE KEMIFEDTNL KLTLISEDİK SYTTRQLEL  
ENLTTQETRE ILHFHYTTWP DFGVPESPAS FLNFLFKVRE SGSLSPHGP VVHCSAGIG RSGTFCLADT CLLLMDKRRK  
PSSVDIKKVL LEMRKFRMGL IQTADQLRFS YLAVIEGAKF 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.