

PTP-1B (Protein Tyrosine Phosphatase1B) Active Protein | PTP-1B active protein

PTP-1B (Protein Tyrosine Phosphatase1B), 1-321aa, Human, E Coli (Bioactivity Validated)

CATALOG # AAA11740	HOST E Coli	APPLICATIONS SDS-Page
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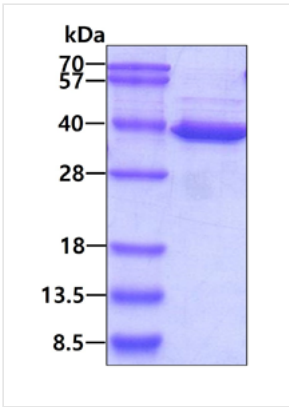
PRODUCT SYNONYMS

PTP-1B (Protein Tyrosine Phosphatase1B); 1-321aa; Human; E Coli (Bioactivity Validated); 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; PTP-1B active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	> 95% by SDS-PAGE
Form/Format	Liquid. 25 mM Tris-HCl, pH7.5, 2 mM beta-mercaptoethanol, 1 mM EDTA, 1mM DTT, 20% glycerol
Concentration	1 mg/ml (determined by Bradford assay) (varies by lot)
Sequence Positions	1-321aa
Sequence	MEMEKEFEQI DKSGSWAAIY QDIRHEASDF PCRVAKLPKN KNRNRYRDVS PFDHSRIKLH QEDNDYINAS LIKMEEAQRS YILTQGPLPN TCGHFWEMVW EQKSRGVVML NRVMEKGSLK CAQYWPQKEE KEMIFEDTNL KLTLSIEDIK SYITVRQLEL ENLTTQETRE ILHFHYTTWP DFGVPESPAS FLNFLFKVRE SGSLSPEHGP VVVHCSAGIG RSGTFLCLADT CLLMLDKRKD PSSVDIKKVL LEMRKFRMGL IQTADQLRFS YLAVIEGAKF IMGDSSVQDQ WKELSHEDLE PPPEHIPPPP RPPKRILEPH N
Applicable Applications for PTP-1B active protein	Enzyme Activity, SDS-PAGE
Tag	Non-Tagged
Endotoxin level	< 1 EU per 1ug of protein (determined by LAL method)
Biological Activity	Specific activity is > 10,000 units/mg, and is defined as the amount of enzyme that hydrolyze 1.0 nmole of p-nitrophenyl phosphate (pNPP) per minute at pH 7.5 at 37°C.
Preparation and Storage	Can be stored at 2 degree C to 8 degree C for 1 week. For long term storage, aliquot and store at -20 degree C or -80 degree C. Avoid repeated freezing and thawing cycles.

IMAGES



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

ADDITIONAL INFORMATION

Related Product Information for PTP-1B active protein	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.
Product Categories/Family for PTP-1B active protein	Signal Transduction
References	Chernoff J., et al. (1990) Proc. Natl. Acad. Sci. uSA. 87, 2735-9

NCBI AND UNIPROT INFORMATION

NCBI GI #	4506289
NCBI GeneID	5770
NCBI Accession #	NP_002818
NCBI GenBank Nucleotide #	NM_002827.3
UniProt Accession #	P18031; Q5TGD8; Q9BQV9; Q9NQQ4
Molecular Weight	37.3 kDa (321 aa)
NCBI Official Full Name	tyrosine-protein phosphatase non-receptor type 1 isoform 1
NCBI Official Synonym Full Names	protein tyrosine phosphatase, non-receptor type 1
NCBI Official Symbol	PTPN1
NCBI Official Synonym Symbols	PTP1B
NCBI Protein Information	tyrosine-protein phosphatase non-receptor type 1
UniProt Protein Name	Tyrosine-protein phosphatase non-receptor type 1
UniProt Gene Name	PTPN1
UniProt Synonym Gene Names	PTP1B; PTP-1B

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.