

Active Recombinant Human PTPN1 protein, Bioactivity Validated

Cat. No. PTPN1-31256TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PTPN1(1-321aa) was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	1-321 a.a.
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.
Form	Liquid. 25 mM Tris-HCl, pH7.5, 2 mM beta-mercaptoethanol, 1 mM EDTA, 1 mM DTT, 20% Glycerol
Bio-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.
Molecular Mass	37.3 kDa (321 aa)
AA Sequence	MEMEKEFEQI DKSGSWAAIY QDIRHEASDF PCRVAKLPKN KNRNRYRDVS PFDHSRIKLH QEDNDYINAS LIKMEEAQRS YILTQGPLPNTCGHFWEMVW EQKSRGVVML NRVMEKGSLLK CAQYWPQKEE KEMIFEDTNL KLTLISEDIK

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SYTTRQLEL ENLTTQETRE ILHFHYTTWPDFGVPESPAS FLNFLFKVRE
SGSLSPHEGP VVVHCSAGIG RSGTFCLADT CLLMDKRKD PSSVDIKKVL
LEMRFMRMGL IQTADQLRFSYLAVIEGAKF IMGDSSVQDQ WKELSHEDLE
PPPEHIPPPP RPPKRILEPH N

Purity > 95% by SDS - PAGE

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

Concentration 1 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name [PTPN1 protein tyrosine phosphatase, non-receptor type 1 \[Homo sapiens \]](#)

Official Symbol [PTPN1](#)

Synonyms PTPN1; protein tyrosine phosphatase, non-receptor type 1; PTP1B; tyrosine-protein phosphatase non-receptor type 1; protein tyrosine phosphatase 1B; protein-tyrosine phosphatase 1B; protein tyrosine phosphatase, placental;

Gene ID [5770](#)

mRNA Refseq [NM_002827](#)

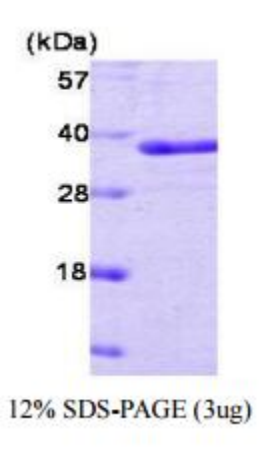
Protein Refseq [NP_002818](#)

MIM [176885](#)

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UniProt ID	P18031
Chromosome Location	20q13.1-q13.2
Pathway	Adherens junction, organism-specific biosystem; Adherens junction, conserved biosystem; Calcineurin-regulated NFAT-dependent transcription in lymphocytes, organism-specific biosystem; Cytokine Signaling in Immune system, organism-specific biosystem; EGF receptor (ErbB1) signaling pathway, organism-specific biosystem; Growth hormone receptor signaling, organism-specific biosystem; Hemostasis, organism-specific biosystem;
Function	ephrin receptor binding; hydrolase activity; insulin receptor binding; protein binding; protein tyrosine phosphatase activity; protein tyrosine phosphatase activity; zinc ion binding;
	

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