

Protein Tyrosine Phosphatase Non Receptor Type-1 Human Recombi-

Item Number	rAP-1572
Synonyms	Tyrosine-protein phosphatase non-receptor type 1, EC 3.1.3.48, Protein-tyrosine phosphatase 1B, PTP-1B, PTPN1, PTP1B.
Description	Protein Tyrosine Phosphatase Non Receptor Type-1 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 321 amino acids and having a molecular mass of 37.3 kDa.
Uniprot Accession Number	P18031
Amino Acid Sequence	MEMEKEFEQI DKSGSWAAIY QDIRHEASDF PCRVAKLPKN KNRNRYRDVS PFDHSRIKLHQEDNDY- INAS LIKMEEAQRS YILTQGPLPN TCGHFWEMVW EQKSRGVVML NRVMKGLKCAQYWPQKEE KEMIFEDTNL KLTLISEDIK SYITVRQLEL ENLTTQETRE ILHFHYTTWPDFGVPEPAS FLNFLFKVRE SGSLSPEHGP VVHCSAGIG RSGTFCLADT CLLLMDKRPSSVDIKKVL LEMRKFRMGL IQTADQLRFS YLAVIEGAKF IMGDSSVQDQ WKELSHEDLE PPPEHIPPPRPPKRILEPHN.
Source	Escherichia Coli.
Physical Appearance and Stability	Sterile filtered colorless solution. Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.
Formulation and Purity	The protein (1mg/ml) contains 25mM Tris-HCl, pH 7.5, 2mM beta-mercaptoethanol, 1mM EDTA, 1mM DTT and 20% Glycerol. Greater than 95.0% as determined by SDS-PAGE.
Application	
Solubility	
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.
Shipping Format and Condition	Lyophilized powder at room temperature.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**