

PTPN1 recombinant protein

Recombinant PTPN1 (1-321) protein

CATALOG # AAA60114	HOST E Coli
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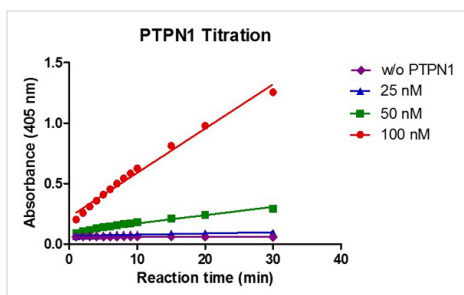
PRODUCT SYNONYMS

PTPN1; Recombinant PTPN1 (1-321) protein; Protein Tyrosine Phosphatase; Non-Receptor Type 1; PTP-1B; PTPN1 recombinant protein

PRODUCT SPECIFICATIONS

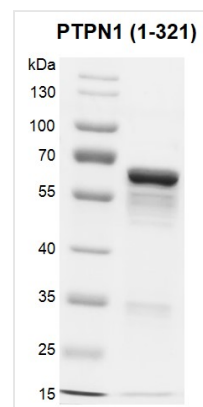
Host	E Coli
Form/Format	Recombinant PTPN1 (1-321) protein is supplied at a concentration of 0.6ug/ul in 25mM Tris pH8.0, 300mM NaCl, 10% glycerol, 0.5mM TCEP.
Protein Species	Human
Tag	GST-Tag
Notes	Recombinant PTPN1 (1-321) is suitable for use in the study of enzyme kinetics, inhibitor screening, and selectivity profiling. HMT Assay Conditions: 1mM pNPP was incubated with different concentrations of PTPN1 protein in 100ul reaction system including 50mM HEPES pH 7.5, 2mM EDTA, 3mM DTT, 100mM NaCl at room temperature. The absorbance at 405nm was continuously monitored for 30 minutes.
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Recombinant proteins in solution are temperature sensitive and must be stored at -80 degree C to prevent degradation. Avoid repeated freeze/thaw cycles and keep on ice when not in storage. Shipping Temp: Dry Ice

IMAGES



Application Data

Recombinant PTPN1 (1-321) activity assay. 1 mM pNPP was incubated with different concentrations of PTPN1 protein in 100 ul reaction system including 50 mM HEPES pH 7.5, 2 mM EDTA, 3 mM DTT, 100 mM NaCl at room temperature. The absorbance at 405 nm was continuously monitored for 30 minutes.



SDS-PAGE

Recombinant PTPN1 (1-321) protein gel 10% SDS-PAGE Coomassie staining MW: 63.6 kDa
Purity: > 80%

ADDITIONAL INFORMATION

Related Product Information for PTPN1 recombinant protein	Short Description: Recombinant PTPN1 (1-321) protein corresponding to amino acids 1-321 of PTPN1 protein accession number NP_002818.1) was expressed in E Coli and contains an N-terminal GST-Tag with a molecular weight of 63.6 kDa. Recombinant PTPN1 (1-321) protein contains the catalytic domain of PTPN1. It is suitable for use in the study of enzyme kinetics, inhibitor screening, and selectivity profiling. Background: PTPN1 (protein tyrosine phosphatase, non-receptor type 1, also known as PTP1B) is a member of the protein tyrosine phosphatase (PTP) family. PTPs catalyze the hydrolysis of the phosphate monoesters specifically on tyrosine residues. Members of the PTP family have a highly conserved catalytic motif, which is essential for the catalytic activity. PTPs regulate a variety of cellular processes including cell growth, differentiation, mitotic cycle, and oncogenic transformation as signaling molecules. Epidermal growth factor receptor (EGFR) and the adaptor protein Shc were reported to be substrates of this PTP, which suggested the roles in growth factor mediated cell signaling. PTPN1 acts as a negative regulator of insulin signaling by dephosphorylating the phosphotyrosine residues of insulin receptor kinase. PTPN1 dephosphorylates epidermal growth factor receptor kinase, as well as JAK2 and TYK2 kinases.
Product Categories/Family for PTPN1 recombinant protein	Recombinant Proteins

NCBI AND UNIPROT INFORMATION

NCBI GI #	4506289
NCBI GeneID	5770
NCBI Accession #	NP_002818.1
NCBI GenBank Nucleotide #	NM_002827.2
UniProt Accession #	P18031; Q5TGD8; Q9BQV9; Q9NQQ4
Molecular Weight	49,967 Da
NCBI Official Full Name	tyrosine-protein phosphatase non-receptor type 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; protein tyrosine phosphatase 1B; protein-tyrosine phosphatase 1B; protein tyrosine phosphatase, placental
UniProt Protein Name	Tyrosine-protein phosphatase non-receptor type 1
UniProt Gene Name	PTPN1
UniProt Synonym Gene Names	PTP1B; PTP-1B
UniProt Entry Name	PTN1_HUMAN

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.

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Online datasheet: <https://stage.aaabiotech.com/ptpn1-recombinant-protein-e-coli/60114>