

# Recombinant Human Protein Tyrosine Phosphatase, Non-Receptor Type 9

Cat. No. PTPN9-1910H Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant humanPTPN9 is expressed in E. coli; it contains the catalytic domain of PTPN9(residues 285-593) and has a molecular weight of 34.3 kDa.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	285-593 a.a.
<b>Description</b>	PTPN9 (proteintyrosine phosphatase from megakaryocyte-2) was originally cloned from humanMEG-01 megakaryocyte and umbilical vein endothelial cell cDNA. The catalyticdomain is located at the carboxy-terminus of the full-length protein and ithas 30-40% sequence identity to other known protein tyrosine phosphatases.The full-length enzyme has been reported to bind phospholipid with highaffinity and that this binding is important for MEG2 activity on secretoryvesicles.
<b>Form</b>	25 mM Tris-HCl (pH8.0), 75 mM NaCl, 0.05% Tween-20, 2 mM EDTA, 1 mM DTT and 50% glycerol.Liquid at -20°C.
<b>Purity</b>	Greater than 95% asdetermined by Coomassie-stained SDS-PAGE gel.
<b>Specific Activity</b>	3.5 U/μg. One unitwill hydrolyze 1 nmol of p-nitrophenyl phosphate per minute at pH 7.4 and30°C. Assay buffer: 50 mM HEPES (pH 7.4), 2 mM EDTA, 3 mM DTT, 100 mM NaCl and 50 mM pNPP.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

**Applications** Removal of phosphates from target substrates. Useful for the study of enzyme kinetics, regulation and for inhibitors screening.

**Storage** 6 months at -20°C.

## GENE INFORMATION

**Gene Name** [PTPN9 protein tyrosinephosphatase, non-receptor type 9 \[ Homo sapiens \]](#)

**Official Symbol** [PTPN9](#)

**Synonyms** PTPN9; proteintyrosine phosphatase, non-receptor type 9; MEG2; PTPMEG2; tyrosine-proteinphosphatase non-receptor type 9; PTPase MEG2; PTPase-MEG2; OTTHUMP00000183522; protein-tyrosine phosphatase MEG2

**Gene ID** [5780](#)

**mRNA Refseq** [NM\\_002833](#)

**Protein Refseq** [NP\\_002824](#)

**MIM** [600768](#)

**UniProt ID** [P43378](#)

**Chromosome Location** 15q23

**Function** hydrolase activity; non-membrane spanning protein tyrosine phosphatase activity; protein binding; protein tyrosine phosphatase activity

**PDB rendering based**

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