

Recombinant Human Protein Tyrosine Phosphatase, Non-Receptor Type 9

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

SPECIFICATION

Product Overview	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.
Species	Human
Source	E.coli
ProteinLength	285-593 a.a.
Description	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.
Form	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.
Purity	Greater than 95% asdetermined by Coomassie-stained SDS-PAGE gel.
Specific Activity	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.

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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 tyrosine phosphatase, non-receptor type 9 [Homo sapiens]
Official Symbol	PTPN9
Synonyms	PTPN9; protein tyrosine phosphatase, non-receptor type 9; MEG2; PTPMEG2; tyrosine-protein phosphatase 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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