

## Active Recombinant Human PTPN9, GST-tagged

Cat. No. PTPN9-1857H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant human PTPN9 protein(a.a.285-593) with N-terminal GST tag was expressed in an <i>E.coli</i> expression system, MW=60.3 kDa.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	285-593 a.a.
<b>Description</b>	Tyrosine-protein phosphatase non-receptor type 9 is an enzyme that in humans is encoded by the PTPN9 gene. The protein is a member of the protein tyrosine phosphatase (PTP) family. PTPs are known to be signaling molecules that regulate a variety of cellular processes including cell growth, differentiation, mitotic cycle, and oncogenic transformation.
<b>Formulation</b>	25 mM Tris-HCl, pH 8.0, 75 mM NaCl, 0.05% Tween-20, 50% glycerol, 2 mM EDTA, 1 mM DTT, 10 mM glutathione.
<b>Purity</b>	> 70% by SDS-PAGE.
<b>Specific Activity</b>	2 U/ug. One unit will hydrolyze 1 nmol p-nitrophenyl phosphate per minute at pH 7.4 and 30°C. Assay buffer: 50 mM HEPES, pH 7.4, 2 mM EDTA, 3 mM DTT, 100 mM NaCl, 50 mM pNPP.
<b>Application</b>	Useful for the study of enzyme kinetics, regulation, to dephosphorylate target

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substrates and for screening inhibitors.

**Storage** >6 months at –80°C.

## GENE INFORMATION

**Gene Name** PTPN9 protein tyrosine phosphatase, non-receptor type 9 [ Homo sapiens ]

**Synonyms** protein tyrosine phosphatase, non-receptor type 9; MEG2; PTPMEG2; PTPN9; tyrosine-protein phosphatase non-receptor type 9; PTPase MEG2; PTPase-MEG2; protein-tyrosine phosphatase MEG2; EC 3.1.3.48

**Gene ID** 5780

**mRNA Refseq** NM\_002833

**Protein Refseq** NP\_002824

**MIM** 600768

**UniProt ID** P43378

**Chromosome Location** 15q24.2

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

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