

Recombinant Human PTPRS protein, His & T7-tagged

Cat. No. PTPRS-6776H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PTPRS aa. (Arg77~Gly361 (Accession # Q13332)) fused with N-terminal His & T7 tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Arg77~Gly361
Description	The protein encoded by this gene 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. This PTP contains an extracellular region, a single transmembrane segment and two tandem intracytoplasmic catalytic domains, and thus represents a receptor-type PTP. The extracellular region of this protein is composed of multiple Ig-like and fibronectin type III-like domains. Studies of the similar gene in mice suggested that this PTP may be involved in cell-cell interaction, primary axonogenesis, and axon guidance during embryogenesis. This PTP has been also implicated in the molecular control of adult nerve repair. Four alternatively spliced transcript variants, which encode distinct proteins, have been reported.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 34.8kDa.

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Endotoxin	<1.0EU per 1ug (determined by the LAL method)
Purity	>95%
Characteristic	The isoelectric point is 4.8.
Applications	SDS-PAGE; WB; ELISA; IP.
Stability	The thermal stability is described by the loss rate of the target protein. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. (Referring from China Biological Products Standard, which was calculated by the Arrhenius equation.) The loss of this protein is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage buffer	Supplied as lyophilized form in PBS, pH7.4, containing 5% trehalose, 0.01% sarcosyl.
Reconstitution	Reconstitute in sterile PBS, pH7.2-pH7.4.

GENE INFORMATION

Gene Name	PTPRS protein tyrosine phosphatase, receptor type S [Homo sapiens (human)]
Official Symbol	PTPRS
Synonyms	R-PTP-S; PTPSIGMA; R-PTP-sigma; protein tyrosine phosphatase PTPsigma; receptor-type tyrosine-protein phosphatase sigma; receptor-type tyrosine-protein phosphatase S

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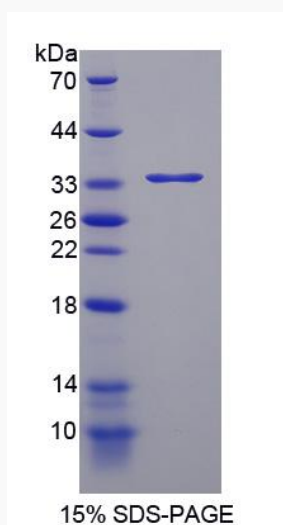
Gene ID 5802

mRNA Refseq NM_002850.3

Protein Refseq NP_002841.3

UniProt ID Q13332

SDS-PAGE



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