

## Active Recombinant Human PTPRS, GST-tagged

Cat. No. PTPRS-1525H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant human PTPRS (883-1210) was expressed in E.coli cells using a N-terminal GST tag.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	883-1210 aa
<b>Description</b>	PTPRS is a member of a subfamily of receptor type PTPases that is characterized by the presence of an extracellular cell adhesion molecule-like motif and 2 intracellular phosphatase domains. 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.
<b>Form</b>	Recombinant protein stored in 20 mM MOPS, pH 7.5, 50 mM NaCl, 0.25 mM DTT, 0.1 mM PMSF, 30% glycerol.
<b>Bio-activity</b>	2460 nmol/min/mg
<b>Molecular Mass</b>	~63 kDa
<b>Purity</b>	>90%

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<b>Applications</b>	Phosphatase Assay, Western Blot
<b>Storage</b>	Store at $-70^{\circ}\text{C}$ . For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. Avoid freeze/thaw cycles.
<b>Concentration</b>	0.1 $\mu\text{g}/\mu\text{l}$
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	PTPRS protein tyrosine phosphatase, receptor type, S [ Homo sapiens ]
<b>Official Symbol</b>	PTPRS
<b>Synonyms</b>	PTPRS; protein tyrosine phosphatase, receptor type, S; receptor-type tyrosine-protein phosphatase S; R-PTP-S; R-PTP-sigma; protein tyrosine phosphatase PTPsigma; receptor-type tyrosine-protein phosphatase sigma; protein tyrosine phosphatase, receptor type, sigma; PTPSIGMA;
<b>Gene ID</b>	5802
<b>mRNA Refseq</b>	NM_002850
<b>Protein Refseq</b>	NP_002841
<b>MIM</b>	601576
<b>UniProt ID</b>	Q13332
<b>Chromosome Location</b>	19p13.3

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**Function**

hydrolase activity; protein binding; receptor activity; transmembrane receptor protein tyrosine phosphatase activity;

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