

Recombinant Human PTPRJ(1024-1306), GST-tagged

Cat. No. PTPRJ-507H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human PTPRJ protein (a.a.1024-1306) with N-terminal GST tag was expressed in an <i>E.coli</i> expression system, MW= 58.9 kDa.
Species	Human
Source	E.coli
ProteinLength	1024-1306 a.a.
Description	Receptor-type tyrosine-protein phosphatase eta is an enzyme that in humans is encoded by the PTPRJ gene. 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 possesses an extracellular region containing five fibronectin type III repeats, a single transmembrane region, and a single intracytoplasmic catalytic domain, and thus represents a receptor-type PTP.
Formulation	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.
Purity	> 95% by SDS-PAGE.
Specific Activity	114 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, and

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100 mM NaCl. Enzyme reaction condition: 50 mM HEPES, pH 7.4, 2 Mm EDTA, 3mM DTT, 100 mM NaCl, 20 mM pNPP, and 0.5 ng/μenzyme, for 5 min at 30°C.

Application

Useful for the study of enzyme kinetics, regulation, and to dephosphorylate target substrates.

Storage

>6 months at -20°C.

Pathways

Adherens junction

GENE INFORMATION

Gene Name

[PTPRJ protein tyrosine phosphatase, receptor type, J \[Homo sapiens \]](#)

Synonyms

protein tyrosine phosphatase, receptor type, J; DEP1; SCC1; CD148; HPTPeta; R-PTP-ETA; PTPRJ; DEP-1; EC 3.1.3.48; Density-enhanced phosphatase 1;R-PTP-eta; R-PTP-J; HPTP eta;CD148 antigen density-enhanced phosphatase 1; protein-tyrosine phosphatase eta; human density enhanced phosphatase-1 protein-tyrosine phosphatase receptor type J; receptor-type tyrosine-protein phosphatase eta susceptibility to colon cancer 1, mouse, homolog of; protein tyrosine phosphatase, receptor type, J polypeptide

Gene ID

[5795](#)

mRNA Refseq

[NM_001098503](#)

Protein Refseq

[NP_001091973](#)

MIM

[600925](#)

UniProt ID

[Q12913](#)

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Chromosome Location	11p11.2
Function	hydrolase activity; protein binding; transmembrane receptor protein tyrosine phosphatase activity

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