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*E.coli*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

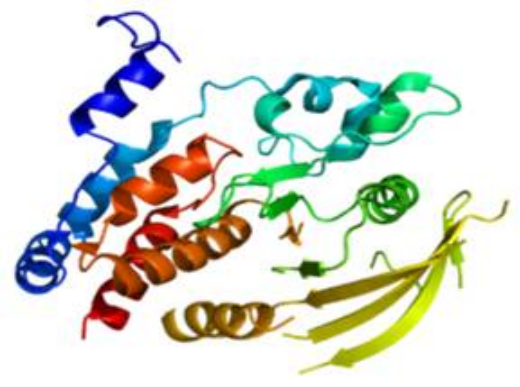
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	100 mM NaCl. Enzyme reaction condition: 50 mM HEPES, pH 7.4, 2 Mm EDTA, 3mM DTT, 100 mM NaCl, 20 mM pNPP, and 0.5 ng/μenzyme, for 5 min at 30°C.
Application	Useful for the study of enzyme kinetics, regulation, and to dephosphorylate target substrates.
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
PDB rendering based on 2cfv	

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