

Recombinant Human PTPRM, GST-tagged

Cat. No. PTPRM-1861H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant humanPTPRM was expressed in an <i>E.coli</i> expression system using a N-terminal GST tag. MW=56.2kDa.
Species	Human
Source	E.coli
Description	PTPRM is a member of the protein tyrosine phosphatase family and can participate in a variety of cellular processes including cell growth, differentiation, mitotic cycle, and oncogenic transformation. PTPRM has been shown to mediate cell-cell aggregation through the interaction with another molecule of PTPRM on an adjacent cell. PTPRM can interact with scaffolding protein RACK1/GNB2L1 and this interaction may be necessary for downstream signaling in response to cell-cell adhesion. PTPRM has been shown to be expressed in human pulmonary vascular endothelia where it directly binds to VE-cadherin and regulates both the tyrosine phosphorylation state of VE-cadherin and barrier integrity.
Purity	> 95% by SDS-PAGE.
Specific Activity	680 U/ug. One unit will hydrolyze 1 pmol 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.
Application	Useful for the study of enzyme kinetics, regulation, and to dephosphorylate target substrates.

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Formulated In 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.

Stability >6 months at -80°C.

GENE INFORMATION

Gene Name PTPRM protein tyrosine phosphatase, receptor type, M [Homo sapiens]

Synonyms PTPRM; protein tyrosine phosphatase, receptor type, M; RPTPM; RPTPU; PTPRL1; hR-PTPu; R-PTP-MU; MGC166994; protein tyrosine phosphatase mu; protein tyrosine phosphatase, receptor type, mu polypeptide; EC 3.1.3.48

Gene ID 5797

mRNA Refseq NM_001105244

Protein Refseq NP_001098714

MIM 176888

UniProt ID P28827

Chromosome Location 18p11.2

Pathway Adherens junction; Cell adhesion molecules (CAMs)

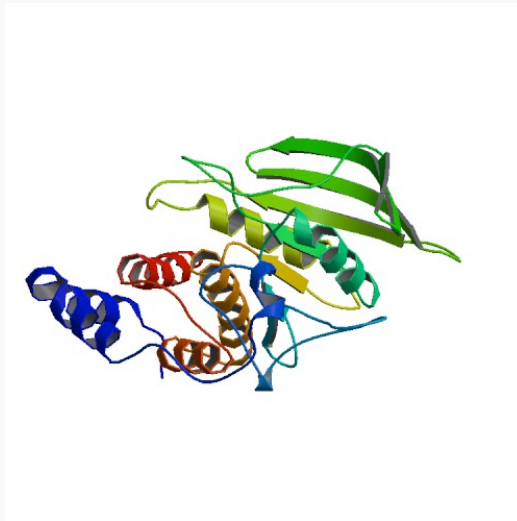
Function cadherin binding; hydrolase activity; protein binding; receptor activity; transmembrane receptor protein tyrosine phosphatase activity

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PDB rendering based
on 1rpm.



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