

Recombinant Human Protein Tyrosine Phosphatase, Receptor Type, M

Cat. No. PTPRM-5469H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant humanPTPRM is expressed in E. coli; it contains the catalytic domain of PTPRM(residues 839-1100) and has a molecular weight of 30.2 kDa.
Species	Human
Source	E.coli
ProteinLength	839-1100 a.a.
Description	PTPRM is involved inthe control of cell-cell adhesion and the cadherin-catenin complex. It hasalso been shown to bind and recruit RACK1 to thte plasma membrane. Human PTPRMis a receptor protein tyrosine phosphatase containing 1390 amino acids.
Form	25 mMTris-HCl (pH 8.0), 75 mM NaCl, 0.05% Tween-20, 2 mM EDTA, 1 mM DTT and 50%glycerol. Liquid at -20°C.
Purity	Greaterthan 95% as determined by Coomassie-stained SDS-PAGE gel.
Specific Activity	1265 U/μg.One unit will hydrolyze 1 nmol of p-nitrophenyl phosphate per minute at pH7.4 and 30°C. Assay buffer: 50 mM HEPES (pH 7.4), 2 mM EDTA, 3 mM DTT, 100 mMNaCl and 50 mM pNPP.
Applications	Removal ofphosphates from target substrates. Useful for the study of enzyme

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kinetics,regulation and for inhibitors screening.

Storage 6 monthsat -20°C.

Pathways Adherens junction;Cell adhesion molecules (CAMs); Nectin adhesion pathway

GENE INFORMATION

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

Official Symbol PTPRM

Synonyms PTPRM; proteintyrosine phosphatase, receptor type, M; RPTPM; RPTPU;PTPRL1; hR-PTPu; R-PTP-MU; receptor-type tyrosine-protein phosphatase mu; OTTHUMP00000162329;protein tyrosine phosphatase mu; protein-tyrosine phosphatase mu; proteintyrosine phosphatase, receptor type, mu polypeptid

Gene ID 5797

mRNA Refseq NM_001105244

Protein Refseq NP_001098714

MIM 176888

UniProt ID P28827

Chromosome Location 18p11.2

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

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PDBrendering based
on 1rpm.

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