

Recombinant Human PTPRM protein, His & T7-tagged

Cat. No. PTPRM-5628H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human PTPRM aa. (Thr1197~Ser1403 (Accession # P28827)) fused with N-terminal His & T7 tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Thr1197~Ser1403
Description	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, a single transmembrane region, and two tandem catalytic domains, and thus represents a receptor-type PTP. The extracellular region contains a meprin-A5 antigen-PTP mu (MAM) domain, an Ig-like domain and four fibronectin type III-like repeats. This PTP has been shown to mediate cell-cell aggregation through the interaction with another molecule of this PTP on an adjacent cell. This PTP can interact with scaffolding protein RACK1/GNB2L1, which may be necessary for the downstream signaling in response to cell-cell adhesion. Alternative splicing results in multiple transcripts encoding distinct isoforms.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 27.6kDa

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Endotoxin	<1.0EU per 1g (determined by the LAL method)
Purity	>95%
Characteristic	The isoelectric point is 6.7.
Applications	SDS-PAGE; WB; ELISA; IP.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage buffer	Supplied as lyophilized form in PBS, pH7.4, containing 5% sucrose, 0.01% sarcosyl.
Reconstitution	Reconstitute in sterile PBS, pH7.2-pH7.4.

GENE INFORMATION

Gene Name	PTPRM protein tyrosine phosphatase, receptor type M [Homo sapiens (human)]
Official Symbol	PTPRM
Synonyms	PTPRM; protein tyrosine phosphatase, receptor type M; RPTPM; RPTPU; PTPRL1; hR-PTPu; R-PTP-MU; receptor-type tyrosine-protein phosphatase mu; protein tyrosine phosphatase mu; protein tyrosine phosphatase, receptor type, mu polypeptide

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Gene ID	5797
mRNA Refseq	NM_001105244.1
Protein Refseq	NP_001098714.1
UniProt ID	P28827

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