

Product Information

PTPRM (764-1452), GST-tagged, human recombinant, expressed in Sf9 cells

Catalog Number **SRP5081**
Storage Temperature -70°C

Synonyms: RPTPM, RPTPU, PTPRL1, hR-PTPu, R-PTP-MU

Product 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.¹ 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.² PTPRM has been 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.

Recombinant human PTPRM (PTP- μ) (764-1452) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag. The gene accession number is BC051651. Recombinant protein stored in 50 mM Tris-HCl, pH 7.5, 150 mM NaCl, 10 mM glutathione, 0.1 mM EDTA, 0.25 mM DTT, 0.1 mM PMSF, and 25% glycerol.

Molecular mass: ~ 110 kDa

Purity: 70–95% (SDS-PAGE, see Figure 1)

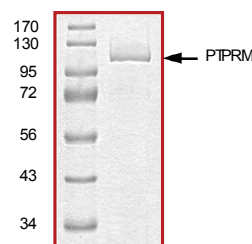
Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

Storage/Stability

The product ships on dry ice and storage at -70°C is recommended. After opening, aliquot into smaller quantities and store at -70°C . Avoid repeated handling and multiple freeze/thaw cycles.

Figure 1.
SDS-PAGE Gel of Typical Lot
70–95% (densitometry)



References

1. Phillips-Mason, P.J. et al., The receptor protein-tyrosine phosphatase PTPmu interacts with IQGAP1. *J. Biol. Chem.*, **281**(8), 4903-10 (2006).
2. Koop, E.A. et al., Receptor protein tyrosine phosphatase mu expression as a marker for endothelial cell heterogeneity; analysis of RPTPmu gene expression using LacZ knock-in mice. *Int. J. Dev. Biol.*, **47**(5), 345-54 (2003).

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