

Recombinant Human PTPRS protein (His tag)

Catalog Number: Eg0576

Basic Information

Species:
Human**Purity:**
>90 %, SDS-PAGE**Tag:**
His tag

Technical Specifications

Purity:

>90 %, SDS-PAGE

Endotoxin Level:

<0.1 EU/ µg protein, LAL method

Source:

HEK293-derived Human PTPRS protein Val825-Leu1000 (Accession# Q13332-1) with a His tag at the C-terminus.

GeneID:

5802

Accession:

Q13332-1

Predicted Molecular Mass:

19.2 kDa

SDS-PAGE:

20-28 kDa, reducing (R) conditions

Formulation:

Lyophilized from 0.22 µm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

Biological Activity

Not tested

Storage and Shipping

Storage:

It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C under sterile conditions after reconstitution.

Shipping:

The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

Background

Protein tyrosine phosphatase receptor type S (PTPRS, also known as R-PTP-S, PTPSIGMA, and R-PTP-sigma) is an integral membrane protein. It can promote oligomerization by binding to large heparan sulfate proteoglycan structures, and interact with NTRK1/3, PPFA1/2/3 (PMID: 25385546; 8524829; 9624153). The non-glycosylated molecular weight of PTPRS is 214 kDa, and the extracellular domain can be cleaved near the cell membrane by an endoprotease to generate a glycosylated 140 kDa protein. Variations and mutations of PTPRS are associated with Alzheimer's disease and cholangiocarcinoma (PMID: 38766183; 35991009).

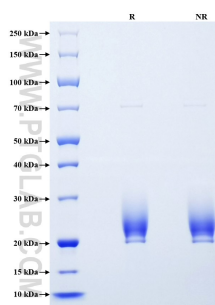
References

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5. Lertpanprom M, Silsirivanit A. Front Public Health. 1;10:835914(2022).

Synonyms

PTPRS, EC:3.1.3.48, PTPSIGMA, R PTP S, R PTP sigma

Selected Validation Data



Purity of Recombinant Human PTPRS was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.

For technical support and original validation data for this product please contact

T: 027-87531629

E: Proteintech-CN@ptglab.com

W: ptgcn.com

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