

Catalog Number: Eg0576

Basic Information**ED50:**
/**GeneID:**
5802**Species:**
Human**Accession:**
Q13332**Purity:**
>85 %, SDS-PAGE**Technical Specifications****Purity:**
>85 %, SDS-PAGE**Endotoxin Level:**
<1.0 EU/ μ g protein, LAL method**Source:**
HEK293-derived Human rPTP α protein Met825-Ile1000 (Accession# Q13332) with a His Tag at the C-terminus.**Predicted Molecular Mass:**
21 kDa**SDS-PAGE:**
20-30 kDa, reducing (R) condition**Formulation:**
Lyophilized from sterile PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.**Biological Activity****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

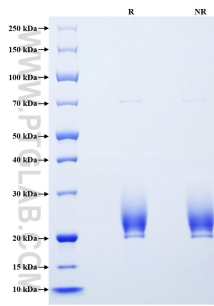
Protein tyrosine phosphatase receptor type S (PTPRS, also known as R-PTP-S, PTPSIGMA, and R-PTP-sigma) is an integral membrane protein. It can promote oligomerization by binding to large heparan sulfate proteoglycan structures, and interact with NTRK1/3, PPFA1/2/3 (PMID: 25385546; 8524829; 9624153). 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

1. Coles CH, Mitakidis N. Nat Commun. 11;5:5209(2014).
2. Pulido R, Serra-Pagès C, Tang M. Proc Natl Acad Sci USA. 5;92(25):11686-90(1995).
3. Serra-Pagès C, Medley QG. J Biol Chem. 19;273(25):15611-20(1998).
4. Poirier A, Picard C, Labonté A. bioRxiv [Preprint]. 12:2024.05.12.593733(2024).
5. Lertpanprom M, Silsirivanit A. Front Public Health. 1;10:835914(2022).

SynonymsEC:3.1.3.48, PTPRS, PTPSIGMA, R PTP S, R PTP sigma, Receptor-type tyrosine-protein phosphatase S, Receptor-type tyrosine-protein phosphatase sigma, R-PTP-S, R-PTP-sigma, rPTP α

Selected Validation Data



Purity of Recombinant Human rPTP α 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

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.