

PTPRS Protein, Mus musculus, Recombinant (His & Myc)

General Information

Synonyms:	PTPNU-3; Receptor-type tyrosine-protein phosphatase sigma (R-PTP-sigma); Receptor-type tyrosine-protein phosphatase S; R-PTP-S; Ptprs
Protein Construction:	1631-1907 aa
Species:	Mouse
Expression Host:	Baculovirus Insect Cells
Accession:	B0V2N1
Molecular Weight:	35.8 kDa (predicted)
AA Sequence:	EPGEHVTGMELEFKRLASSKAHTSRFITASLPCNKFKNRLVNILPYESSRVCLQPIRGVEGSDYINASFIDGYRQ QKAYIATQGPLAETTEDFWRALWENNSTIVVMLTKLREMGREKCHQYWPAERSARYQYFVVDPMAEYNMP QYILREFKVTDARDGQSRTVRQFQFTDWPEQGAPKSGEGFIDFIGQVHKTKEQFGQDGPISVHCSAGVGRGTG VFITLSIVLERMRYEGVVDIFQTVKVLRTQRPAMVQTEDEYQFCFQA ALEYLGSFDHYAT

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 85% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol. If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose, pH 8.0.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 μg/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

A DRUG SCREENING EXPERT

Cell surface receptor that binds to glycosaminoglycans, including chondroitin sulfate proteoglycans and heparan sulfate proteoglycans. Binding to chondroitin sulfate and heparan sulfate proteoglycans has opposite effects on PTPRS oligomerization and regulation of neurite outgrowth. Contributes to the inhibition of neurite and axonal outgrowth by chondroitin sulfate proteoglycans, also after nerve transection. Plays a role in stimulating neurite outgrowth in response to the heparan sulfate proteoglycan GPC2. Required for normal brain development, especially for normal development of the pituitary gland and the olfactory bulb. Functions as tyrosine phosphatase. Mediates dephosphorylation of NTRK1, NTRK2 and NTRK3. Plays a role in down-regulation of signaling cascades that lead to the activation of Akt and MAP kinases. Down-regulates TLR9-mediated activation of NF-kappa-B, as well as production of TNF, interferon alpha and interferon beta.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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