

Recombinant Mouse Ptpsr Protein, Myc/DDK-tagged

Cat. No. Ptpsr-5252M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length protein tyrosine phosphatase, receptor type, S (cDNA clone MGC:63375 IMAGE:6834684), complete cds, with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	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.
Molecular Mass	204.8 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining

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Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 µg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name	Ptprs protein tyrosine phosphatase, receptor type, S [Mus musculus (house mouse)]
Official Symbol	Ptprs
Synonyms	Ptprs; protein tyrosine phosphatase, receptor type, S; PTP; RPT; PTP-; Ptpt9; PTP-NU3; PTPNU-3; R-PTP-S; AL022616; PTPsigma; RPTPsigma; receptor-type tyrosine-protein phosphatase S; R-PTP-sigma; Receptor-type tyrosine-protein phosphatase sigma; tissue-specific protein tyrosine phosphatase; EC 3.1.3.48
Gene ID	19280
mRNA Refseq	NM_011218
Protein Refseq	NP_035348
UniProt ID	B0V2N1

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