

Recombinant Human PTPRS Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. PTPRS-4145H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	PTPRS MS Standard C13 and N15-labeled recombinant protein (NP_570923) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	The protein encoded by this gene is a member of the protein tyrosine phosphatase (PTP) family. PTPs are known to be signaling molecules that regulate a variety of cellular processes including cell growth, differentiation, mitotic cycle, and oncogenic transformation. This PTP contains an extracellular region, a single transmembrane segment and two tandem intracytoplasmic catalytic domains, and thus represents a receptor-type PTP. The extracellular region of this protein is composed of multiple Ig-like and fibronectin type III-like domains. Studies of the similar gene in mice suggested that this PTP may be involved in cell-cell interaction, primary axonogenesis, and axon guidance during embryogenesis. This PTP has been also implicated in the molecular control of adult nerve repair. Four alternatively spliced transcript variants, which encode distinct proteins, have been reported.
Molecular Mass	168.4 kDa
AA Sequence	MAPTWGPGMVSVVGPMGLLVLLVGGCAAEEPPRFIKEPKDQIGVSGGVASFVCQ ATGDPKPRVTWNKKGKKVNSQRFETIEFDESAGAVLRIQLRTPRDENVYECVAQN

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SVGEITVHAKLTVLREDQLPSGFPNIDMGPQLKVVERTRTATMLCAASGNPDPEITW
FKDFLPVDPSASNGRIKQLRSGALQIESSEETDQGKYECVATNSAGVRYSSPANLYV
RVRRVAPRFSILPMSHEIMPGGNVNITCVAVGSPMPYVKWMQGAEDLTPEDDMPV
GRNVLELTDVKDSANYTCVAMSSLGVIEAVAQITVKSLPKAPGTPMV TENTATSITIT
WDSGNPDPVSYYVIEYKSKSQDGPYQIKEDITTRYSIGGLSPNSEYEIWWSAVNSIG
QGPPSESVVTRTGEQAPASAPRNVQARMLSATTMIVQWEEPVEPNGLIRGYRVYYT
MEPEHPVGNWQKHNVDDSLTTVGSLLLEDITYTVRVLAFTSVGDGPLSDPIQVKTQ
QGVPGQPMNLRAEARSETSLTWSPPRQESIKEYELLFREGDHGREVGRTFDPTTS
YVVEDLKPNTHEYAFRLAARSPQGLGAFTPVVRQRTLQSI SPKNFKVKMIMKTSVLLS
WEFPDNYNSPTPYKIQYNGLTLDVDGRTTKKLITHLKPHTFYNFVLNTRGSSSLGGLQ
QTVTAWTAFNLLNGKPSVAPKPDADGFIMVYLPDGQSPVPVQSYFIVMVPLRKSRG
GQFLTPLGSPEDMDLEELIQDISRLQRRSLRHSRQLEVPRPYIAARFSVLPPTFHPGD
QKQYGGFDNRGLEPGHRYVLFVLAVLQKSEPTFAASPFSDPFQLDNPDQPIVIDGE
EGLIWWIGPVLAVVFIICIVIAILLYKNKPDSKRK DSEPRTKCLLNNADLAPHHKDPVE
MRRINFQTPGMLSHPPPIADMAEHTERL KANDSLKLSQEYESIDPGQQFTWEHSNL
EVNKPKNRYANVIAYDHSRVILQPIEGIMGSDYINANYVDGYRRQNAYIATQG PLPET
FGDFWRMVWEQRSATIVMMTRLEEKSR IKCDQYWPNRGTETYGFIQVTL LDTIELAT
FCVRTFSLHKNGSSEKREVRQFQFTAWPDHGVPEYPTPFLAFLRRVKTCNPPDAGP
IVVHCSAGVGRTGCFIVIDAMLERIKPEKTVDVYGHVTLMRSQRNYMVQTEDQYSFI
HEALLEAVGCGNTEVPARSLYAYIQKLAQVEPGEHVTGMELEFKRLANSKAHTSRFI
SANLPCNKFKNRLVNIMPYESTRVCLQPIRGVEGSDYINASFIDGYRQQKAYIATQGP
LAETTEDFWRMLWENNSTIVVMLTKLREMGREKCHQYWPAERSARYQYFVVD PMA
EYNMPQYILREFKVTDARDGQSRTVRQFQFTDWPEQGVPKSGEGFIDFIGQVH KTK
EQFGQDGPISVHCSAGVGRTGVFITLSIVLERMRYEGVVDIFQTVKMLRTQRPAMVQ
TEDEYQFCYQAALEYLGSFDHYATSGPTRTRPLEQKLISEEDLAANDILDYKDDDDK
V

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling

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conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name PTPRS protein tyrosine phosphatase receptor type S [Homo sapiens (human)]

Official Symbol PTPRS

Synonyms PTPRS; protein tyrosine phosphatase, receptor type, S; receptor-type tyrosine-protein phosphatase S; R-PTP-S; R-PTP-sigma; protein tyrosine phosphatase PTPsigma; receptor-type tyrosine-protein phosphatase sigma; protein tyrosine phosphatase, receptor type, sigma; PTPSIGMA;

Gene ID 5802

mRNA Refseq NM_130853

Protein Refseq NP_570923

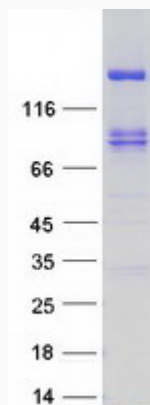
MIM 601576

UniProt ID Q13332

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SDS-PAGE

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