

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

Cat. No. PTPRS-2766H **Lot. No.** (See product label)

SPECIFICATION

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|-------------------------|--|
| Product Overview | PTPRS MS Standard C13 and N15-labeled recombinant protein (NP_570925) 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 | 166.1 kDa |
| AA Sequence | MAPTWGPGMVSVVGPMLLVLLVGGCAAEEPPRFIPEPKDQIGVSGGVASFVCQ ATGDPKPRVTWNKKGKKVNSQRFETIEFDESAGAVLRIQPLRTPRDENVYECVAQN |

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SVGEITVHAKLTVLREDQLPSGFPNIDMGPQLKVVERTRTATMLCAASGNPDPEITW
FKDFLPVDPSASNGRIKQLRSGALQIESSEETDQGKYECVATNSAGVRYSSPANLYV
RELREVRRVAPRFSILPMSHEIMPGGNVNITCVAVGSPMPYVKWMQGAEDLTPEDD
MPVGRNVLELTDVKDSANYTCVAMSSLGVIEAVAQITVKS LPKAPGTPMVTENTATSI
TITWDSGNPDPVSYYVIEYKSKSQDGPYQIKEDITTRYSIGGLSPNSEYEIWVSAVN
SIGQGGPPSESVVTRTGEQAPASAPRNVQARMLSATTMIVQWEEPVEPNGLIRGYRV
YYTMEPEHPVGNWQKHNVDSSLTTVGSLLLEDETYTVRVLAFTSVGDGPLSDPIQV
KTQQGVPGQPMNLRAEARSETSITLSWSPPRQESI I KYELLFREGDHGREVGRTFD
PTTSYVVEDLKPNT EYAFRLAARSPQGLGAFTPVVRQRTLQSISPKNFKVKMIMKTS
VLLSWEFPDNYNSPTPYKIQYNGLTLDVDGRTTKKLITHLKPHTFYNFVLTNRGSSLG
GLQQTVTAWTAFNLLNGKPSVAPKPDADGFIMVYLPDGQSPVPVQSYFIVMVPLRK
SRGGQFLTPLGSPEDMDLEELIQDISRLQRRSLRHSRQLEVPRPYIAARFVLPPTFH
PGDQKQYGGFDNRGLEPGHRYVLFVLA VLQKSEPTFAASPFSDPFQLDNPDPQPIV
DGEEGLIWWIGPVLAVVFII CIVIAILLYKNKPDSKRK DSEPRTKCLLNNADLAPHHPKD
PVEMRRINFQTPGMLSHPP IPIADMAEHTERL KANDSLKLSQEYESIDPGQQFTWEH
SNLEVNKPKNRYANVIA YDHSRVLQPIEGIMGSDYINANYVDGYRCQNAYIATQGPL
PETFGDFWRMVWEQRSATIVMMTRLEEK SRIKCDQYWPNRGTETYGFIQVTL LDTI
ELATFCVRTFSLHKN GSSEKREVRQFQFTAWPDHGVPEYPTPFLAFLRRVKT CNPP
DAGPIVVHCSAGVGR TGCFIVIDAMLERIKPEKTVDVYGHVTLMRSQRNYMVQTED
QYSFIHEALLEAVGCGNTEVPARSLYAYIQKLAQVEPGEHVTGMELEFKRLANSKAH
TSRFISANLPCNKFKNRLVNIMPYESTRVCLQPIRGVEGSDYINASFIDGYRQQKAYIA
TQGPLAETTEDFWRMLWENNSTIVMLTKLREMGREKCHQYWPAERSARYQYFVV
DPMAEYNMPQYILREFKVT DARDGQSRTVRQFQFTDWPEQGVPKSGEGFIDFIGQV
HKTKEQFGQDGPISVHCSAGVGR TGVFITLSIVLERMRYEGVVDIFQTVKMLRTQRP
AMVQTEDEYQFCYQA ALEYLGSFDHYATSGPTRRRLEQKLISEEDLAANDILDYKD
DDDKV

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|------------------|--|
| 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 |

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_130855](#)

Protein Refseq [NP_570925](#)

MIM [601576](#)

UniProt ID [Q13332](#)

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