

Product datasheet for **PH321495**

PTPRS (NM_130854) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	PTPRS MS Standard C13 and N15-labeled recombinant protein (NP_570924)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC221495
Predicted MW:	209.7 kDa



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Protein Sequence: >RC221495 representing NM_130854
 Red=Cloning site Green=Tags(s)

MAPTWPGMVSVVGPMGLLVLLVGGCAAEEPPRFIKEPKDQIGVSGGVASFVCQATGDPKPRVTWNKKG
 KKVNSQRFETIEFDESAGAVLRIQPLRTPRDENVYECVAQNSVGEITVHAKLTVLREDQLPSGFNIDMG
 PQLKVVTRTRATMLCAASGNPDPEITWFKDFLPVDPASANGRIKQLRSGALQIESSEETDQGYECVAT
 NSAGVRYSSPANLYVRVRRVAPRF SILPMSHEIMPGGNVNITCVAVGSPMPYVKWMQGAEDLTPEDDMPV
 GRNVLELTDVKDSANYTCVAMSSLGVIEAVAQITVKSLPKAPGTPMVTENTATSITITWDSGNPDVSY
 VIEYKSKSQDGPYQIKEDITTTTRYSIGGLSPNSEYEWVSAVNSIGQPPSESVVTRTGEQAPASAPRNV
 QARMLSATTMIVQWEEPVEPNGLIRGYRVYYTMEPEHPVGNWQKHNVDSSLLTTVGSLLEDETYTVRVL
 FTSVGDGPLSDPIQVKTQQGVGQPMMLRAEARSET SITLSWSPPRQESI IKYELLFREGDHGREVGRTF
 DPTTSYVVEDLKPNTTEYAFRLAARSPQGLGAFTPVVRQRTLQSKPSAPPQDVKCVSRSTAILVSWRPPP
 PETHNGALVGYSVRYRPLGSEDPPEKVENGIPTTTQILLEALEKWTQYRITTTVAHTEVGPPESSPVV
 RTDEDVPSAPPRKVEAEALNATAIRVLWRSPAPGRQHGQIRGYQVHYVRMEGAEARGPPRIKDVMLADAQ
 EMVITNLQPETAYSITVAAYTMKGDGARSKPKVVVTKGAVLGRPTLSVQQTPEGSLLARWEPPAGTAEDQ
 VLG YRLQFGREDSPLATLEFPPESEDRYTASGVHKGATYVFRLLAARSRGLGEEAAEVL SIPEDTPRGHP
 QILEAAGNASAGTVLLRWLPPVPAERNGAIVKYTVAVREAGALGPARETEL PAAAEPGAENAL TLQGLKP
 DTAYDLQVRAHTRRGGPFPSPVRYRTFLRDQVSPKNFKVKMIMKTSVLLSWEFPDNYNSPTPYKIYNG
 LTLDVDGRTTKKLI THLKPHTFYNFVL TNRGSSLGGQQVTAWTAFNLLNGKPSVAPKPDADGFIMVYL
 PDGQSPVPVQSYFIVMVPLRKSRRGGQFL TPLGSPEDMDLEELIQDISRLQRRSLRHSRQLEVPRPYIAAR
 FSVLPPTFHPGDQKQYGGFDNRGLEPGRHYVLFVAVLQKSEPTFAASPFSDPFQLDNDPQPPIVDGEEG
 LIWVIGPVLAVVFIICIVIAILLYKNKPD SKRKDSEPRTKCLLNNADLAPHHPKDPVEMRRINFQTPGML
 SHPPPIADMAEHTERLKANDSLKLSQEYESIDPGQQFTWEHSNLEVNKPKNRYANVIAYDHSRVLQPI
 EGIMGSDYINANYVDG YRRQNAVYIATQGPLPETFGDFWRMVWEQRSATIVMMTRLEEKSRIKCDQYWPNR
 GTETYGFIQVTLTLDIELATFCVRTFLSHKNGSSEKREVRQFQFTAWPDHGVPEYPTFLAFLRRVKTCN
 PPDAGPIVVHCSAGVGRTGCFIVIDAMLERIKPEKTVDDVYGHVTLMRSQRNYMVQTEDQYSFIHEALLEA
 VGCGNTEVPARSLYAYIQKLAQVEPGEHVTGMELEFKRLANSKAHTSRFISANLPCNKFKNRLVNIMPYE
 STRVCLQPIRGVEGSDYINASFIDGYRQQKAYIATQGPLAETTEDFWRMLWENNSTIVVMLTKLREMGRE
 KCHQYWAERSARYQYFVVDPMAEYNMPQYILREFKVTDARDGQSRTVRQFQFTDWPEQGVPKSGEGFID
 FIGQVHKTKEQFGQDGPISVHCSAGVGRTGVFITLSIVLERMRYEGVVDIFQTVKMLRTQRPAMVQTEDE
 YQFCYQAALLEYLGSFDHYAT

SGPTRRRLEQKLI SEEDLAANDILDYKDDDDKV

Tag: C-Myc/DDK

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

Concentration: >0.05 µg/µL as determined by microplate BCA method

Labeling Method: Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine

Buffer: 25 mM Tris-HCl, 100 mM glycine, pH 7.3

Storage: Store at -80°C. Avoid repeated freeze-thaw cycles.

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

RefSeq: [NP_570924](#)

RefSeq Size: 6386

RefSeq ORF: 5730

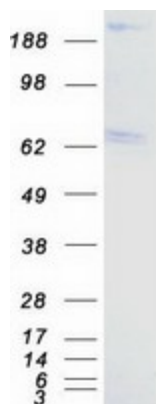
Synonyms: PTPSIGMA; R-PTP-S; R-PTP-sigma

Locus ID: 5802
UniProt ID: [Q13332](#), [Q8NHS7](#), [Q59FX6](#)
Cytogenetics: 19p13.3

Summary: 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. [provided by RefSeq, Jul 2008]

Protein Families: Druggable Genome, Phosphatase, Transmembrane

Product images:



Coomassie blue staining of purified PTPRS protein (Cat# [TP321495]). The protein was produced from HEK293T cells transfected with PTPRS cDNA clone (Cat# [RC221495]) using MegaTran 2.0 (Cat# [TT210002]).