

Product datasheet for PH321938

PTPRS (NM_130855) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	PTPRS MS Standard C13 and N15-labeled recombinant protein (NP_570925)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC221938
Predicted MW:	166.1 kDa
Protein Sequence:	>RC221938 representing NM_130855 Red=Cloning site Green=Tags(s)

MAPTWGPMVSVVGPMLLVLLVGGCAEEPPRFIPEKPKDQIGVSGGVASFVCQATGDPKPRVTWNKKG
KKVNSQRFETIEFDESAGAVLRIQPLRTRPDENVYECVAQNSVGEITVHAKLTVLREDQLPSGFNIDMG
PQLKVVTRTRTATMLCAASGNPDPEITWFKDFLPVDPASNGRIKQLRSGALQIESSEETDQGYECVAT
NSAGVRYSSPANLYVRELREVRVAPRFSILPMSHEIMPGGNVNITCVAVGSPMPYVVKWQGAEDLTPED
DMPVGRNVLELTDVKDSANYTCVAMSSLGVEAVAQITVKSLPKAPGTPMVTENTATSITITWDSGNPDP
VSYVYIEYKSKSQDGPYQIKEDITTTYSIGGLSPNSEYEWVSAVNSIGQGPSESVVTRTGEQAPASA
PRNVQARMLSATMIVQWEEPVEPNGLIRGYRVYITMEPEHPVGNWQKHNVDLSLLTTVGSLLDETYTV
RVLAFTSVGDGPLSDPIQVKTQQGVPGQPMMLRAEARSETSITLSWSPRQESI I KYELLFREGDHGREV
GRTFDPTTSYVVEDLKPNTYAFRLAARSPQGLGAFTPVVRQRTLQSI SPKNFKVKMIMKT SVLLSWEFP
DNYNSPTPYKIYNGLTLDVDGRTTKLITHLKPHTFYNFVL TNRGSSLGGQQTAVTAWTAFNLLNGKPS
VAPKPDADGFIMVYLPDQSPVPVQSYFIVMVPLRKRSGGQFLTPLGSPEDMDLEELIQDISRLQRRSLR
HSRQLEVRPYIAARFVSVLPPTFHPGDQKQYGGFDNRGLEPGHRYVLFVLA VLKQSEPTFAASPFSDPFQ
LDNPDQP IVDGEEGLI WVIGPVLAVVFIICIVIAILLYKNKPD SKRKDSEPRTKCLLNADLAPHPKD
PVEMRRINFQTPGMLSHPP IPIADMAEHTERL KANDSLKLSQEYESIDPGQFTWEHSNLEVNKPKNRYA
NVIA YDHSRVILQPIEGIMGSDYINANYVDGYRCQYAIATQGPLPETFGDFWRMWEQRSATIVMMTRL
EEKSRICDQYWPNRGTETYGF IQVTLDTIELATFCVTRFSLHKNGSSEKREVRQFQFTAWPDHGVPY
PTPFLAFLRRVKTCNPPDAGPIVHCSAGVGRGCFIVIDAMLERIKPEKTVDVYGHVTLMRSQRNYMVQ
TEDQYSFIHEALLEAVGCGNTEVPARSLYAYIQKLAQVEPGEHVTGMELEFKRLANSKAHTSRFISANLP
CNKFKNRLVNIIMPYESTRVLQPIRGVEGSDYINASFIDGYRQKAYIATQGPLAETTEDFWRMLWENNS
TIVVMLTKLREMGREKCHQYWAERSARYQYFVVDPMAEYNMPQYILREFKVTDARDGQSRTVRQFQFTD
WPEQGVKPSGEGFIDF IGQVHKTKEQFGQDGPISVHCSAGVGRGTFITLSIVLERMRYEGVVDIFQTVK
MLRTQRPAMVQTEDEYQFCYQAAL EYLG SFDHYAT

SGP TRRRLEQKLI SEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining



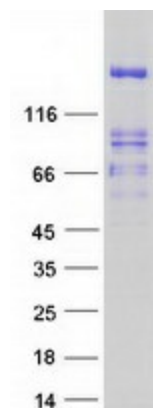
[View online »](#)

Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-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_570925
RefSeq Size:	5171
RefSeq ORF:	4515
Synonyms:	PTPSIGMA; R-PTP-S; R-PTP-sigma
Locus ID:	5802
UniProt ID:	Q13332 , Q8NHS7 , Q59FX6 , A0A0A0MR60
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# [TP321938]). The protein was produced from HEK293T cells transfected with PTPRS cDNA clone (Cat# [RC221938]) using MegaTran 2.0 (Cat# [TT210002]).