

Recombinant Human PTPRN Protein

Cat. No. PTPRN-01H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PTPRN Protein was expressed in E.coli.
Species	Human
Source	E.coli
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 possesses an extracellular region, a single transmembrane region, and a single catalytic domain, and thus represents a receptor-type PTP. This PTP was found to be an autoantigen that is reactive with insulin-dependent diabetes mellitus (IDDM) patient sera, and thus may be a potential target of autoimmunity in diabetes mellitus. Alternate splicing results in multiple transcript variants.
Form	50mM Tris-HCl, pH8.0, 200mM NaCl, 10% glycerol
Molecular Mass	42 kDa
AASequence	RQQDKERLAALGPEGAHGDTTFEYQDLCRQHMTKSLFNRAEGPPEPSRVSSVSS QFSDAAQASPSSHSSTPSWCEEPAQANMDISTGHMILAYMEDHLNRNDRDLAKEWQ ALCAYQAEPNTCATAQGEGNIKKNRHPDFLPYDHARIKLKVESSPSRSDYINASPIIE HDPRMPAYIATQGPLSHTIADFWQMVWESGCTVIVMLTPLVEDGVKQCDDRYWPDE GASLYHVVEVNLVSEHIWCEDFLVRSFYLKNVQTQETRSLTQFHFLSWPAEGTPAST RPLLDFFRRKVNKCYRGRSCPIIVHCSDGAGRTGTIYLIDMVLNRMAGKVKEIDIAATL

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EHVRDQRPGLVRSKDQFEFALTAVAAEEVNAILKALPQ

Purity ≥95% by SDS-PAGE

Storage Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

Concentration 2.05 mg/mL

GENE INFORMATION

Gene Name [PTPRN protein tyrosine phosphatase, receptor type, N \[Homo sapiens \(human\) \]](#)

Official Symbol [PTPRN](#)

Synonyms PTPRN; protein tyrosine phosphatase, receptor type, N; receptor-type tyrosine-protein phosphatase-like N; IA 2; ICA 512; PTP IA-2; islet cell antigen 2; islet cell antigen 512; islet cell autoantigen 3; protein tyrosine phosphatase-like N; IA2; IA-2; ICA512; R-PTP-N; IA-2/PTP; FLJ16131

Gene ID [5798](#)

mRNA Refseq [NM_001199763](#)

Protein Refseq [NP_001186692](#)

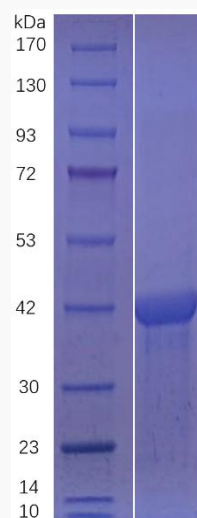
MIM [601773](#)

UniProt ID [Q16849](#)

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SDS-PAGE and WB

Reducing 12% SDS-PAGE (CBB stained) analysis profile of purified PTPRN-01H

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