

Recombinant Human PTPRN protein, His-tagged

Cat. No. PTPRN-258H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PTPRN (Arg576-Gln950) fused with His tag at N-terminal was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	576-950 a.a.
Description	Receptor-type tyrosine-protein phosphatase-like N (PTPRN) belongs to the protein-tyrosine phosphatase family and receptor class 8 subfamily. PTPRN contains 1 tyrosine-protein phosphatase domain, is expressed in neuroendocrine cells only. PTPs are known to be signaling molecules that regulate a variety of cellular processes including cell growth, differentiation, mitotic cycle, and oncogenic transformation. It implicated in neuroendocrine secretory processes. It may be involved in processes specific for neurosecretory granules, such as their biogenesis, trafficking or regulated exocytosis or may have a general role in neuroendocrine functions. It seems to lack intrinsic enzyme activity, may play a role in the regulation of secretory granules via its interaction with SNTB2. 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.
Form	Supplied as a 0.2 µm filtered solution of 20mM Tris,150mM NaCl,pH8.0
AA Sequence	MGSSHHHHHSSGLVPRGSHMRQQDKERLAALGPEGAHGDTTFEYQDLCRQHMA

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TKSLFNRAEGP PEPSRVSSVSSQFSDAAQASPSSHSTPSWCEEPAQANMDISTG
 HMILAYMEDHLRNRDRLAKEW QALCAYQAEPNTCATAQGEGNIKKNRHPDFLPYD
 HARIKLVESPPSRSDYINASPIIEHDPRMP AYIATQGPLSHTIADFWQMVWESGCT
 VIVMLTPLVEDGVKQCDRYWPDEGASLYHVYEVNLVSEH IWCEDFLVRSFYLNKVVQ
 TQETRTLTLQFHFLSWPAEGTPASTRPLLDFFRRKVNKCYRGRSCPIIVH CSDGAGRT
 GTYILIDMVLNRMAGVKVEIDIAATLEHVRDQRPGLVRSKDQFEFALTAVAEVNAI L
 KALPQ

Endotoxin	Less than 0.1 ng/g (1 IEU/g).
Purity	Greater than 95% as determined by SEC-HPLC and reducing SDS-PAGE.
Storage	Store at < -20 centigrade, stable for 6 months after receipt. Please minimize freeze-thaw cycles.

GENE INFORMATION

Gene Name	PTPRN protein tyrosine phosphatase, receptor type, N [Homo sapiens]
Official Symbol	PTPRN
Synonyms	IA2; IA-2; ICA512; R-PTP-N; IA-2/PTP; receptor-type tyrosine-protein phosphatase-like N; ICA 512; PTP IA-2; islet cell antigen 2; islet cell antigen 512; islet cell autoantigen 3; protein tyrosine phosphatase-like N
Gene ID	5798
mRNA Refseq	NM_002846
Protein Refseq	NP_002837

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MIM	601773
UniProt ID	Q16849
Chromosome Location	2q35-q36.1
Pathway	Type I diabetes mellitus, organism-specific biosystem; Type I diabetes mellitus, conserved biosystem
Function	GTPase binding; protein binding; NOT protein tyrosine phosphatase activity

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