

## Recombinant Human PTPRN Protein, His-tagged

Cat. No. PTPRN-677H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human PTPRN, transcript variant 1, fused with His tag at N-terminal was expressed in E. coli.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	20-255 a.a.
<b>Description</b>	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.
<b>Form</b>	Supplied as a 0.2 $\mu$ M filtered solution of 20mM Tris, 150mM NaCl, pH8.0
<b>Molecular Mass</b>	44.6kD
<b>AA Sequence</b>	MGSSHHHHHSSGLVPRGSHMRQQDKERLAALGPEGAHGDTTFEYQDLCRQHMA TKSLFNRAEGPPEPSRVSSVSSQFSDAAQASPSHSTPSWCEEPAQANMDISTG HMILAYMEDHLRNRDRLAKEWQALCAYQAEPNTCATAQGEGNIKKNRHPDFLPYDH

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ARIKLVESPPSRSDYINASPIIEHDPRMPAYIATQGPLSHTIADFWQMVWESGCTVI  
VMLTPLVEDGVKQCDDRYWPDEGASLYHVYEVN

**Endotoxin** Endotoxin level is <0.1 ng/g of protein (<1EU/g).

**Purity** >95% as determined by SDS-PAGE and Coomassie blue staining

## GENE INFORMATION

**Gene Name** PTPRN protein tyrosine phosphatase, receptor type, N [ Homo sapiens ]

**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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