Receptor-Type Tyrosine-Protein Phosphatase-Like N (PTPRN) Rat Recombinant Protein

PRODUCT OVERVIEW

Product Name	Receptor-type tyrosine-protein phosphatase-like N (Ptprn), Recombinant Protein
Full Product Name	Recombinant Rat Receptor-type tyrosine-protein phosphatase-like N (Ptprn), partial
Product Gene Name	Ptprn recombinant protein
Product Synonym Gene Name	Ptprn
Sequence	ISAHGCLFDR RLCSHLEVCI QDGLFGQCQA GVGQARPLLQ VTSPVLQRLQ GVLRQLMSQG LSWHDDLTQY VISQEMERIP RLRPPEPHPR DRSGSVPRRA GPAGELLSQG NPTGSSPAVQ GLSRPPGDGN GAGVGSPLSS LQAELLPPLL EHLLMPPQPP HPSLTYEPAL LQPYLFQQFG SRDGSRGSES ASGVVGHLAK AEDPVLFSRS LSKAILGTHS GHSFGDLTGP SPAQLFQDSG LLYMAQELPV PGRARAPRLP EEGGSSRAED SSEGHEEEVL GGHGEKSPPQ AVQADVSLQR LAAVLAGYGV ELRQLTPEQL STLLTLLQLL PKGTGRHLGG AVNGGADVKK TIEEQMQRGD TADARPPTPL LPGHPTASST SIKVRQVLSP GFPEPPKTSS PLGISAVLLE KKSPLGQSQP TVVGQPSARP SAEEYGYIVT DQKPLSLVAG VKLLEILAEH VHMTSGSFIN ISVVGPAVTF RIRHNEQNLS LADVTQQAGL VKSELEAQTG LQILQTGVGQ REESAAVLPR QAHGISPMR
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	106,228 Da
Sequence Positions	41-579
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for Q63259
Species	Rat
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Ptprn recombinant protein	This protein 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.
Other Notes	Small volumes of Ptprn recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for Ptprn purchase	MBS1434768 is a recombinant protein targeting Ptprn. Also known as Recombinant Rat Receptor-type tyrosine-protein phosphatase-like N (Ptprn), partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Ptprn. It may not necessarily be applicable to this product.

NCBI GI #	29789305
NCBI GeneID	116660
NCBI Accession #	NP_446333.1
UniProt Primary Accession #	Q63259
UniProt Secondary Accession #	Q62883; Q63795; Q64643
UniProt Related Accession #	Q63259
GenBank Nucleotide #	NM_053881.1
NCBI Official Full Name	receptor-type tyrosine-protein phosphatase-like N
NCBI Official Synonym Full Names	protein tyrosine phosphatase, receptor type, N
NCBI Official Symbol	Ptprn
NCBI Official Synonym Symbols	Ia-2; ICA512
UniProt Protein Name	Receptor-type tyrosine-protein phosphatase-like N
UniProt Synonym Protein Names	105 kDa islet cell antigen; BEM-3; Brain-enriched membrane-associated protein tyrosine phosphatase; ICA105
Protein Family	Receptor-type tyrosine-protein phosphatase
UniProt Gene Name	Ptprn
UniProt Synonym Gene Names	ICA512-NTF; ICA512-TMF; ICA512-CCF
NCBI Protein Information	receptor-type tyrosine-protein phosphatase-like N
NCBI Summary for Ptprn	putative tyrosine phosphatase; involved in cytokine mediated signaling pathways [RGD, Feb 2006]
UniProt Comments for Ptprn	Plays a role in vesicle-mediated secretory processes. Required for normal accumulation of secretory vesicles in hippocampus, pituitary and pancreatic islets. Required for the accumulation of normal levels of insulin-containing vesicles and preventing their degradation. Plays a role in insulin secretion in response to glucose stimuli. Required for normal accumulation of the neurotransmitters norepinephrine, dopamine and serotonin in the brain. In females, but not in males, required for normal accumulation and secretion of pituitary hormones, such as luteinizing hormone (LH) and follicle-stimulating hormone (FSH). Required to maintain normal levels of renin expression and renin release. Seems to lack intrinsic enzyme activity.
Research Articles on Ptprn	**1.** The ME ICA512 beta2-strand fosters proICA512 dimerization until NTF prevents N506 glycosylation.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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