Neuroplastin (NPTN) Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	Neuroplastin (NPTN), Recombinant Protein
Full Product Name	Recombinant Human Neuroplastin (NPTN), partial
Product Gene Name	NPTN recombinant protein
Product Synonym Gene Name	NPTN
Sequence	QN AGFVKSPMSE TKLTGDAFEL YCDVVGSPTP EIQWWYAEVN RAESFRQLWD GARKRRVTVN TAYGSNGVSV LRITRLTLED SGTYECRASN DPKRNDLRQN PSITWIRAQA TISVLQKPRI VTSEEVIIRD SPVLPVTLQC NLTSSSHTLT YSYWTKNGVE LSATRKNASN MEYRINKPRA EDSGEYHCVY HFVSAPKANA TIEVKAAPDI TGHKRSENKN EGQDATMYCK SVGYPHPDWI WRKKENGMPM DIVNTSGRFF IINKENYTEL NIVNLQITED PGEYECNATN AIGSASVVTV LRVRSHLAP
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	43,931 Da
Sequence Positions	29-339
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.
OMIM	612820
3D Structure	ModBase 3D Structure for Q9Y639
Species	Human
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for NPTN recombinant protein	This gene encodes a type I transmembrane protein belonging to the Ig superfamily. The protein is believed to be involved in cell-cell interactions or cell-substrate interactions. Alternative splicing results in multiple transcript variants.
Other Notes	Small volumes of NPTN 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 NPTN purchase	MBS1419883 is a recombinant protein targeting NPTN. Also known as Recombinant Human Neuroplastin (NPTN), partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

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

NCBI GI #	238624147
NCBI GeneID	27020

NCBI Accession #	NP_001154835.1
UniProt Primary Accession #	Q9Y639
UniProt Secondary Accession #	Q17R52; Q59EJ9; Q6NVX7; Q9Y640; B2RAL7; B7Z4D3; B7ZLL2
UniProt Related Accession #	Q9Y639
GenBank Nucleotide #	NM_001161363.1
NCBI Official Full Name	neuroplastin isoform c
NCBI Official Synonym Full Names	neuroplastin
NCBI Official Symbol	NPTN
NCBI Official Synonym Symbols	GP55; GP65; SDR1; np55; np65; SDFR1
UniProt Protein Name	Neuroplastin
UniProt Synonym Protein Names	Stromal cell-derived receptor 1; SDR-1
Protein Family	Neuroplastin
UniProt Gene Name	NPTN
UniProt Synonym Gene Names	SDFR1; SDR1; SDR-1
NCBI Protein Information	neuroplastin
UniProt Comments for NPTN	Probable homophilic and heterophilic cell adhesion molecule involved in long term potentiation at hippocampal excitatory synapses through activation of p38MAPK. May also regulate neurite outgrowth by activating the FGFR1 signaling pathway. May play a role in synaptic plasticity ().
Research Articles on NPTN	**1.** Xkr8-BSG/NPTN complex is required for phosphatidylserine scrambling in apoptotic cell membranes.
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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