Neuroligin-2 (NLGN2) Rat Recombinant Protein

PRODUCT OVERVIEW

Product Name	Neuroligin-2 (Nlgn2), Recombinant Protein
Full Product Name	Recombinant Rat Neuroligin-2 (Nlgn2), partial
Product Gene Name	Nlgn2 recombinant protein
Product Synonym Gene Name	Nlgn2
Sequence	QRGGGG PGGGAPGGPG LGLGSLGEER FPVVNTAYGR VRGVRRELNN EILGPVVQFL GVPYATPPLG ARRFQPPEAP ASWPGVRNAT TLPPACPQNL HGALPAIMLP VWFTDNLEAA ATYVQNQSED CLYLNLYVPT EDGPLTKKRD EATLNPPDTD IRDSGKKPVM LFLHGGSYME GTGNMFDGSV LAAYGNVIVA TLNYRLGVLG FLSTGDQAAK GNYGLLDQIQ ALRWLSENIA HFGGDPERIT IFGSGAGASC VNLLILSHHS EGLFQKAIAQ SGTAISSWSV NYQPLKYTRL LAAKVGCDRE DSTEAVECLR RKSSRELVDQ DVQPARYHIA FGPVVDGDVV PDDPEILMQQ GEFLNYDMLI GVNQGEGLKF VEDSAESEDG VSASAFDFTV SNFVDNLYGY PEGKDVLRET IKFMYTDWAD RDNGEMRRKT LLALFTDHQW VAPAVATAKL HADYQSPVYF YTFYHHCQAE GRPEWADAAH GDELPYVFGV PMVGATDLFP CNFSKNDVML SAVVMTYWTN FAKTGDPNQP VPQDTKFIHT KPNRFEEVVW SKFNSKEKQY LHIGLKPRVR DNYRANKVAF WLELVPHLHN LHTELFTTTT RLPPYATRWP PRTPGPGTSG TRRPPPPATL PPESDIDLGP RAYDRFPGDS RDYSTELS
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	89,126 Da
Sequence Positions	15-678
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 Q62888
Species	Rat
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Nlgn2 recombinant protein	This gene encodes a member of a family of neuronal cell surface proteins. Members of this family may act as splice site-specific ligands for beta-neurexins and may be involved in the formation and remodeling of central nervous system synapses.
Other Notes	Small volumes of Nlgn2 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 Nlgn2 purchase	MBS1471700 is a recombinant protein targeting Nlgn2. Also known as Recombinant Rat Neuroligin-2 (Nlgn2), partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Nlgn2. It may not necessarily be applicable to this product.

NCBI GI #	16758898
NCBI GeneID	117096
NCBI Accession #	NP_446444.1
UniProt Primary Accession #	Q62888
UniProt Related Accession #	Q62888
GenBank Nucleotide #	NM_053992.1
NCBI Official Full Name	neuroligin-2
NCBI Official Synonym Full Names	neuroligin 2
NCBI Official Symbol	Nlgn2
UniProt Protein Name	Neuroligin-2
Protein Family	Neuroligin
UniProt Gene Name	Nlgn2
NCBI Protein Information	neuroligin-2
NCBI Summary for Nlgn2	cell surface protein that binds to a subset of neurexins [RGD, Feb 2006]
UniProt Comments for Nlgn2	Transmembrane scaffolding protein involved in cell-cell interactions via its interactions with neurexin family members. Mediates cell-cell interactions both in neurons and in other types of cells, such as Langerhans beta cells. Plays a role in synapse function and synaptic signal transmission, especially via gamma-aminobutyric acid receptors (GABA(A) receptors). Functions by recruiting and clustering synaptic proteins. Promotes clustering of postsynaptic GABRG2 and GPHN. Modulates signaling by inhibitory synapses, and thereby plays a role in controlling the ratio of signaling by excitatory and inhibitory synapses and information processing. Required for normal signal amplitude from inhibitory synapses, but is not essential for normal signal frequency. May promote the initial formation of synapses, but is not essential for this. In vitro, triggers the de novo formation of presynaptic structures. Mediates cell-cell interactions between Langerhans beta cells and modulates insulin secretion.
Research Articles on Nlgn2	**1.** e found that NLGN3 function at inhibitory synapses in rat CA1 depends on the presence of NLGN2 and identified a domain in the extracellular region that accounted for this functional difference between NLGN2 and 3 specifically at inhibitory synapses.
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