Reticulon-4 Receptor-Like 2 (RTN4RL2) Rat Recombinant Protein

PRODUCT OVERVIEW

Product Name	Reticulon-4 receptor-like 2 (Rtn4rl2), Recombinant Protein
Full Product Name	Recombinant Rat Reticulon-4 receptor-like 2 (Rtn4rl2)
Product Gene Name	Rtn4rl2 recombinant protein
Product Synonym Gene Name	Rtn4rl2
Sequence	CPMLCTCYSS PPTVSCQANN FSSVPLSLPP STQRLFLQNN LIRSLRPGTF GPNLLTLWLF SNNLSTIYPG TFRHLQALEE LDLGDNRHLR SLEPDTFQGL ERLQSLHLYR CQLSSLPGNI FRGLVSLQYL YLQENSLLHL QDDLFADLAN LSHLFLHGNR LRLLTEHVFR GLGSLDRLLL HGNRLQGVHR AAFHGLSRLT ILYLFNNSLA SLPGEALADL PALEFLRLNA NPWACDCRAR PLWAWFQRAR VSSSDVTCAT PPERQGRDLR TLRDTDFQAC PPPTPTRPGS RARGNSSSNH LYGVAEAGAP PADPSTLYRD LPAEDSRGRQ GGDAPTEDDY WGGYGGEDQR GEQTCPGAAC
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	46,184 Da
Sequence Positions	31-390, full length protein
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 Q80WD1
Species	Rat
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Rtn4rl2 recombinant protein	MBS1430840 is a recombinant protein targeting Rtn4rl2. Also known as Recombinant Rat Reticulon-4 receptor-like 2 (Rtn4rl2). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of Rtn4rl2 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Rtn4rl2. It may not necessarily be applicable to this product.

NCBI GI #	31077112
NCBI GeneID	311169
NCBI Accession #	NP_852045.1
UniProt Primary Accession #	Q80WD1

UniProt Related Accession #	Q80WD1
GenBank Nucleotide #	NM_181380.2
NCBI Official Full Name	reticulon-4 receptor-like 2
NCBI Official Synonym Full Names	reticulon 4 receptor-like 2
NCBI Official Symbol	Rtn4rl2
NCBI Official Synonym Symbols	Ngrh1
UniProt Protein Name	Reticulon-4 receptor-like 2
UniProt Synonym Protein Names	Nogo receptor-like 3; Nogo-66 receptor homolog 1
Protein Family	Reticulon-4 receptor
UniProt Gene Name	Rtn4rl2
UniProt Synonym Gene Names	NgR2
NCBI Protein Information	reticulon-4 receptor-like 2
NCBI Summary for Rtn4rl2	member of the reticulon 4 receptor family of proteins that may be involved in regulation of axonal regeneration [RGD, Feb 2006]
UniProt Comments for Rtn4rl2	Cell surface receptor that plays a functionally redundant role in the inhibition of neurite outgrowth mediated by MAG (PubMed:15673660). Plays a functionally redundant role in postnatal brain development. Contributes to normal axon migration across the brain midline and normal formation of the corpus callosum. Does not seem to play a significant role in regulating axon regeneration in the adult central nervous system (). Protects motoneurons against apoptosis; protection against apoptosis is probably mediated by MAG (PubMed:26335717). Like other family members, plays a role in restricting the number dendritic spines and the number of synapses that are formed during brain development (PubMed:22325200). Signaling mediates activation of Rho and downstream reorganization of the actin cytoskeleton (PubMed:22325200).
Research Articles on Rtn4rl2	**1.** spatio-temporal expression pattern of NgR1, NgR2 & NgR3 mRNAs & corresponding proteins in developing olfactory system; data suggest, in non-pathological conditions, NgR1 & homologs may play a role in axon outgrowth in the olfactory system.
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