RTN4RL1 siRNA – Reticulon-4 Receptor-Like 1 (Rat)

PRODUCT OVERVIEW

Product Name	RTN4RL1, siRNA
Full Product Name	RTN4RL1 siRNA (Rat)
Product Gene Name	RTN4RL1 sirna
Product Synonym Names	NGRH2; Reticulon-4 receptor-like 1; Nogo receptor-like 2; Nogo-66 receptor homolog 2; Nogo-66 receptor-related protein 3; NgR3
Host	Synthetic
Species Reactivity	Rat
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	RTN4RL1 siRNA (Rat) is a target-specific 19-23 nt siRNA oligo duplexes designed to knock down gene expression.
Preparation and Storage	Shipped at 4 degree C. Store at -20 degree C for one year.
Molecular Weight	49,015 Da
3D Structure	ModBase 3D Structure for Q80WD0
Negative Control	siRNA Negative Control (Catalog# MBS8241404) is a non-targeting 21 nt siRNA recommended as a negative control for experiments using targeted siRNA transfection.
Quality Control	Oligonucleotide synthesis is monitored base by base through trityl analysis to ensure appropriate coupling efficiency. The oligo is subsequently purified by affinity-solid phase extraction. The annealed RNA duplex is further analyzed by mass spectrometry to verify the exact composition of the duplex. Each lot is compared to the previous lot by mass spectrometry to ensure maximum lot-to-lot consistency.
Directions for Use	We recommends transfection with 100 nM siRNA 48 to 72 hours prior to cell lysis. Before resuspending, briefly centrifuge the tube to ensure the lyophilized siRNA is at the bottom of the tube. Resuspend the siRNA oligos to an appropriate concentration with DEPC water. For each vial, suitable for 250 transfections in 24 well plate (20 pmol for each well).
Components	We offer pre-designed sets of 3 different target-specific siRNA oligo duplexes of rat RTN4RL1 gene. Each vial contains 5 nmol of lyophilized siRNA. The duplexes can be transfected individually or pooled together to achieve knockdown of the target gene, which is most commonly assessed by qPCR or western blot. Our siRNA oligos are also chemically modified (2'-OMe) at no extra charge for increased stability and enhanced knockdown in vitro and in vivo.
Applications Tested/Suitable for RTN4RL1 sirna	RNA Interference (RNAi)
Related Product Information for RTN4RL1 sirna	MBS8217278 is an siRNA targeting RTN4RL1. Also known as RTN4RL1 siRNA (Rat). Reactive in Rat. Host: Synthetic. siRNA to inhibit RTN4RL1 expression using RNA interference
Other Notes	Small volumes of RTN4RL1 sirna 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 RTN4RL1. It may not necessarily be applicable to this product.

NCBI GI #	31077122

NCBI GeneID	303311
NCBI Accession #	NP_852042.1
UniProt Primary Accession #	Q80WD0
UniProt Secondary Accession #	Q7TQ96; A1L1I9
UniProt Related Accession #	Q80WD0
GenBank Nucleotide #	NM_181377.3
NCBI Official Full Name	reticulon-4 receptor-like 1
NCBI Official Synonym Full Names	reticulon 4 receptor-like 1
NCBI Official Symbol	Rtn4rl1
NCBI Official Synonym Symbols	Ngrh2
UniProt Protein Name	Reticulon-4 receptor-like 1
UniProt Synonym Protein Names	Nogo receptor-like 2; Nogo-66 receptor homolog 2; Nogo-66 receptor-related protein 3; NgR3
Protein Family	Reticulon-4 receptor
UniProt Gene Name	Rtn4rl1
UniProt Synonym Gene Names	NgR3
UniProt Entry Name	R4RL1_RAT
NCBI Protein Information	reticulon-4 receptor-like 1
NCBI Summary for RTN4RL1	neuronal receptor; may have a role in the central nervous system [RGD, Feb 2006]
UniProt Comments for RTN4RL1	May play a role in regulating axonal regeneration and plasticity in the adult central nervous system.
Research Articles on RTN4RL1	**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.
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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