NLGN4Y siRNA – Neuroligin-4, Y-Linked Isoform 2 (Human)

PRODUCT OVERVIEW

Product Name	NLGN4Y, siRNA
Full Product Name	NLGN4Y siRNA (Human)
Product Gene Name	NLGN4Y sirna
Product Synonym Names	KIAA0951; Neuroligin-4. Y-linked; Neuroligin Y
Host	Synthetic
Species Reactivity	Human
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	NLGN4Y siRNA (Human) 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	28,885 Da
OMIM	400028
3D Structure	ModBase 3D Structure for Q8NFZ3
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 human NLGN4Y 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 NLGN4Y sirna	RNA Interference (RNAi)
Related Product Information for NLGN4Y sirna	MBS8200881 is an siRNA targeting NLGN4Y. Also known as NLGN4Y siRNA (Human). Reactive in Human. Host: Synthetic. siRNA to inhibit NLGN4Y expression using RNA interference
Other Notes	Small volumes of NLGN4Y 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 NLGN4Y. It may not necessarily be applicable to this product.

NCBI GI #	256222832
NCBI GeneID	22829
NCBI Accession #	NP_001157710.1
UniProt Primary Accession #	Q8NFZ3
UniProt Secondary Accession #	Q14D08; Q7Z3T5; Q8N5B6; Q9Y2F8; F5H6W0
UniProt Related Accession #	Q8NFZ3
GenBank Nucleotide #	NM_001164238.1
NCBI Official Full Name	neuroligin-4, Y-linked isoform 2
NCBI Official Synonym Full Names	neuroligin 4, Y-linked
NCBI Official Symbol	NLGN4Y
UniProt Protein Name	Neuroligin-4, Y-linked
Protein Family	Neuroligin
UniProt Gene Name	NLGN4Y
UniProt Synonym Gene Names	KIAA0951; Neuroligin Y
UniProt Entry Name	NLGNY_HUMAN
NCBI Protein Information	neuroligin-4, Y-linked
NCBI Summary for NLGN4Y	This gene encodes a type I membrane protein that belongs to the family of neuroligins, which are cell adhesion molecules present at the postsynaptic side of the synapse, and may be essential for the formation of functional synapses. Alternatively spliced transcript variants have been found for this gene.[provided by RefSeq, Mar 2011]
UniProt Comments for NLGN4Y	NLGN4Y: Putative neuronal cell surface protein involved in cell- cell-interactions. Belongs to the type-B carboxylesterase/lipase family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, integral Chromosomal Location of Human Ortholog: Yq11.221 Cellular Component: postsynaptic membrane; extracellular space; cell surface; integral to plasma membrane; postsynaptic density; synapse; cell junction Molecular Function: protein binding; neurexin binding; receptor activity; cell adhesion molecule binding Biological Process: regulation of synaptic transmission; synaptogenesis; metabolic process; neuron adhesion; social behavior; learning
Research Articles on NLGN4Y	**1.** investigated 12 single-nucleotide polymorphisms in Y-linked neuroligin 4, transducin b-like 1, and eukaryotic translation initiation factor 1a genes, results suggest a Y chromosome effect in autism
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