NMRAL1 siRNA – Nmra-Like Family Domain-Containing Protein 1 (Human)

PRODUCT OVERVIEW

Product Name	NMRAL1, siRNA
Full Product Name	NMRAL1 siRNA (Human)
Product Gene Name	NMRAL1 sirna
Product Synonym Names	HSCARG; NmrA-like family domain-containing protein 1
Host	Synthetic
Species Reactivity	Human
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	NMRAL1 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	33,344 Da
3D Structure	ModBase 3D Structure for Q9HBL8
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 NMRAL1 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 NMRAL1 sirna	RNA Interference (RNAi)
Related Product Information for NMRAL1 sirna	MBS8220408 is an siRNA targeting NMRAL1. Also known as NMRAL1 siRNA (Human). Reactive in Human. Host: Synthetic. siRNA to inhibit NMRAL1 expression using RNA interference
Other Notes	Small volumes of NMRAL1 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 NMRAL1. It may not necessarily be applicable to this product.

NCBI GI #	762006039

NCBI GeneID	57407
NCBI Accession #	NP_001292070.1
UniProt Primary Accession #	Q9HBL8
UniProt Related Accession #	Q9HBL8
GenBank Nucleotide #	NM_001305141.1
NCBI Official Full Name	nmrA-like family domain-containing protein 1
NCBI Official Synonym Full Names	NmrA-like family domain containing 1
NCBI Official Symbol	NMRAL1
NCBI Official Synonym Symbols	HSCARG; SDR48A1
UniProt Protein Name	NmrA-like family domain-containing protein 1
Protein Family	NmrA-like family domain-containing protein
UniProt Gene Name	NMRAL1
UniProt Synonym Gene Names	HSCARG
UniProt Entry Name	NMRL1_HUMAN
NCBI Protein Information	nmrA-like family domain-containing protein 1
NCBI Summary for NMRAL1	This gene encodes an NADPH sensor protein that preferentially binds to NADPH. The encoded protein also negatively regulates the activity of NF-kappaB in a ubiquitylation-dependent manner. It plays a key role in cellular antiviral response by negatively regulating the interferon response factor 3-mediated expression of interferon beta. Alternative splicing of this gene results in multiple transcript variants. [provided by RefSeq, Feb 2015]
UniProt Comments for NMRAL1	NMRAL1: disulfide-linked (Probable). Belongs to the NmrA-type oxidoreductase family. Chromosomal Location of Human Ortholog: 16p13.3 Cellular Component: perinuclear region of cytoplasm; cytoplasm; nucleus
Research Articles on NMRAL1	**1.** After viral infection, HSCARG interacted with tumor necrosis receptor-associated factor 3 (TRAF3) and inhibited its ubiquitination by promoting the recruitment of OTUB1 to TRAF3.
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