LRRC4B siRNA – Leucine-Rich Repeat-Containing Protein 4b (Human)

PRODUCT OVERVIEW

Product Name	LRRC4B, siRNA
Full Product Name	LRRC4B siRNA (Human)
Product Gene Name	LRRC4B sirna
Product Synonym Names	LRIG4; Leucine-rich repeat-containing protein 4B; Netrin-G3 ligand; NGL-3
Host	Synthetic
Species Reactivity	Human
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	LRRC4B 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	76,434 Da
3D Structure	ModBase 3D Structure for Q9NT99
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 LRRC4B 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 LRRC4B sirna	RNA Interference (RNAi)
Related Product Information for LRRC4B sirna	MBS8226622 is an siRNA targeting LRRC4B. Also known as LRRC4B siRNA (Human). Reactive in Human. Host: Synthetic. siRNA to inhibit LRRC4B expression using RNA interference
Other Notes	Small volumes of LRRC4B 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 LRRC4B. It may not necessarily be applicable to this product.

NCBI GI #	122937309

NCBI GeneID	94030
NCBI Accession #	NP_001073926.1
UniProt Primary Accession #	Q9NT99
UniProt Secondary Accession #	Q3ZCQ4; Q58F20
UniProt Related Accession #	Q9NT99
GenBank Nucleotide #	NM_001080457.1
NCBI Official Full Name	leucine-rich repeat-containing protein 4B
NCBI Official Synonym Full Names	leucine rich repeat containing 4B
NCBI Official Symbol	LRRC4B
NCBI Official Synonym Symbols	HSM; LRIG4
UniProt Protein Name	Leucine-rich repeat-containing protein 4B
UniProt Synonym Protein Names	Netrin-G3 ligand; NGL-3
Protein Family	Leucine-rich repeat-containing protein
UniProt Gene Name	LRRC4B
UniProt Synonym Gene Names	LRIG4; NGL-3
UniProt Entry Name	LRC4B_HUMAN
NCBI Protein Information	leucine-rich repeat-containing protein 4B
UniProt Comments for LRRC4B	LRRC4B: Synaptic adhesion protein. Regulates the formation of excitatory synapses. The trans-synaptic adhesion between LRRC4B and PTPRF regulates the formation of excitatory synapses in a bidirectional manner. Protein type: Membrane protein, integral Chromosomal Location of Human Ortholog: 19q13.33 Cellular Component: presynaptic membrane; integral to membrane; cell junction Molecular Function: receptor binding Biological Process: positive regulation of synaptogenesis
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