LRRTM4 siRNA – Leucine-Rich Repeat Transmembrane Neuronal Protein 4 Isoform 3 (Mouse)

PRODUCT OVERVIEW

Product Name	LRRTM4, siRNA
Full Product Name	LRRTM4 siRNA (Mouse)
Product Gene Name	LRRTM4 sirna
Product Synonym Names	Leucine-rich repeat transmembrane neuronal protein 4
Host	Synthetic
Species Reactivity	Mouse
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	LRRTM4 siRNA (Mouse) 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	59,034 Da
3D Structure	ModBase 3D Structure for Q80XG9
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 mouse LRRTM4 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 LRRTM4 sirna	RNA Interference (RNAi)
Related Product Information for LRRTM4 sirna	MBS8224570 is an siRNA targeting LRRTM4. Also known as LRRTM4 siRNA (Mouse). Reactive in Mouse. Host: Synthetic. siRNA to inhibit LRRTM4 expression using RNA interference
Other Notes	Small volumes of LRRTM4 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 LRRTM4. It may not necessarily be applicable to this product.

NCBI GI #	197927164
NCBI GeneID	243499
NCBI Accession #	NP_001128215.1
UniProt Primary Accession #	Q80XG9
UniProt Secondary Accession #	Q8C030; Q8JZS8
UniProt Related Accession #	Q80XG9
GenBank Nucleotide #	NM_001134743.1
NCBI Official Full Name	leucine-rich repeat transmembrane neuronal protein 4 isoform 3
NCBI Official Synonym Full Names	leucine rich repeat transmembrane neuronal 4
NCBI Official Symbol	Lrrtm4
NCBI Official Synonym Symbols	A230052N11; 7530419J18Rik
UniProt Protein Name	Leucine-rich repeat transmembrane neuronal protein 4
Protein Family	Leucine-rich repeat transmembrane neuronal protein
UniProt Gene Name	Lrrtm4
UniProt Entry Name	LRRT4_MOUSE
NCBI Protein Information	leucine-rich repeat transmembrane neuronal protein 4
UniProt Comments for LRRTM4	LRRTM4: May play a role in the development and maintenance of the vertebrate nervous system. Belongs to the LRRTM family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Cell development/differentiation; Membrane protein, integral Cellular Component: postsynaptic membrane; membrane; integral to membrane; plasma membrane; synapse; cell junction Molecular Function: heparan sulfate proteoglycan binding Biological Process: synapse organization and biogenesis
Research Articles on LRRTM4	**1.** This study demonstrated that LRRTM4-HSPG complex mediates excitatory synapse development on dentate gyrus granule cells.
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