LRRTM3 siRNA – Leucine-Rich Repeat Transmembrane Neuronal Protein 3 (Mouse)

PRODUCT OVERVIEW

Product Name	LRRTM3, siRNA
Full Product Name	LRRTM3 siRNA (Mouse)
Product Gene Name	LRRTM3 sirna
Product Synonym Names	Leucine-rich repeat transmembrane neuronal protein 3
Host	Synthetic
Species Reactivity	Mouse
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	LRRTM3 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	58,518 Da
3D Structure	ModBase 3D Structure for Q8BZ81
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 LRRTM3 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 LRRTM3 sirna	RNA Interference (RNAi)
Related Product Information for LRRTM3 sirna	MBS8222695 is an siRNA targeting LRRTM3. Also known as LRRTM3 siRNA (Mouse). Reactive in Mouse. Host: Synthetic. siRNA to inhibit LRRTM3 expression using RNA interference
Other Notes	Small volumes of LRRTM3 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 LRRTM3. It may not necessarily be applicable to this product.

NCBI GI #	30520063

NCBI GeneID	216028
NCBI Accession #	NP_848793.1
UniProt Primary Accession #	Q8BZ81
UniProt Secondary Accession #	Q14CH3; Q3TQA3; Q8BGJ7
UniProt Related Accession #	Q8BZ81
GenBank Nucleotide #	NM_178678.4
NCBI Official Full Name	leucine-rich repeat transmembrane neuronal protein 3
NCBI Official Synonym Full Names	leucine rich repeat transmembrane neuronal 3
NCBI Official Symbol	Lrrtm3
NCBI Official Synonym Symbols	9630044H04Rik
UniProt Protein Name	Leucine-rich repeat transmembrane neuronal protein 3
Protein Family	Leucine-rich repeat transmembrane neuronal protein
UniProt Gene Name	Lrrtm3
UniProt Entry Name	LRRT3_MOUSE
NCBI Protein Information	leucine-rich repeat transmembrane neuronal protein 3
UniProt Comments for LRRTM3	LRRTM3: 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: Membrane protein, integral; Cell development/differentiation Cellular Component: postsynaptic membrane; membrane; plasma membrane; integral to membrane; synapse; cell junction
Research Articles on LRRTM3	**1.** protein interactions between LRRTM3, APP and BACE1, as well as complex associations between mRNA levels of LRRTM3, CTNNA3, APP and BACE1 in humans might influence APP metabolism and ultimately risk of AD
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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