LRRC45 siRNA – Leucine-Rich Repeat-Containing Protein 45 (Human)

PRODUCT OVERVIEW

Product Name	LRRC45, siRNA
Full Product Name	LRRC45 siRNA (Human)
Product Gene Name	LRRC45 sirna
Product Synonym Names	Leucine-rich repeat-containing protein 45
Host	Synthetic
Species Reactivity	Human
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	LRRC45 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	75,951 Da
3D Structure	ModBase 3D Structure for Q96CN5
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 LRRC45 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 LRRC45 sirna	RNA Interference (RNAi)
Related Product Information for LRRC45 sirna	MBS8241280 is an siRNA targeting LRRC45. Also known as LRRC45 siRNA (Human). Reactive in Human. Host: Synthetic. siRNA to inhibit LRRC45 expression using RNA interference
Other Notes	Small volumes of LRRC45 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 LRRC45. It may not necessarily be applicable to this product.

NCBI GI #	21450705

NCBI GeneID	201255
NCBI Accession #	NP_659436.1
UniProt Primary Accession #	Q96CN5
UniProt Related Accession #	Q96CN5
GenBank Nucleotide #	NM_144999.3
NCBI Official Full Name	leucine-rich repeat-containing protein 45
NCBI Official Synonym Full Names	leucine rich repeat containing 45
NCBI Official Symbol	LRRC45
UniProt Protein Name	Leucine-rich repeat-containing protein 45
Protein Family	Leucine-rich repeat-containing protein
UniProt Gene Name	LRRC45
UniProt Entry Name	LRC45_HUMAN
NCBI Protein Information	leucine-rich repeat-containing protein 45
UniProt Comments for LRRC45	LRRC45: Component of the proteinaceous fiber-like linker between two centrioles, required for centrosome cohesion. {ECO:0000269|PubMed:24035387}. Interacts with CROCC/rootletin and CEP250. {ECO:0000269|PubMed:24035387} Chromosomal Location of Human Ortholog: 17q25.3 Cellular Component: centrosome; cytoplasm
Research Articles on LRRC45	**1.** LRRC45 is a critical component of the proteinaceous linker between two centrioles and is required for centrosome cohesion.
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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