LRRC41 siRNA – Leucine-Rich Repeat-Containing Protein 41 (Rat)

PRODUCT OVERVIEW

Product Name	LRRC41, siRNA
Full Product Name	LRRC41 siRNA (Rat)
Product Gene Name	LRRC41 sirna
Product Synonym Names	Leucine-rich repeat-containing protein 41
Host	Synthetic
Species Reactivity	Rat
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	LRRC41 siRNA (Rat) 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	88,508 Da
3D Structure	ModBase 3D Structure for Q5M9H1
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 rat LRRC41 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 LRRC41 sirna	RNA Interference (RNAi)
Related Product Information for LRRC41 sirna	MBS829865 is an siRNA targeting LRRC41. Also known as LRRC41 siRNA (Rat). Reactive in Rat. Host: Synthetic. siRNA to inhibit LRRC41 expression using RNA interference
Other Notes	Small volumes of LRRC41 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 LRRC41. It may not necessarily be applicable to this product.

NCBI GI #	57527570

NCBI GeneID	362566
NCBI Accession #	NP_001009710.1
UniProt Primary Accession #	Q5M9H1
UniProt Related Accession #	Q5M9H1
GenBank Nucleotide #	NM_001009710.1
NCBI Official Full Name	leucine-rich repeat-containing protein 41
NCBI Official Synonym Full Names	leucine rich repeat containing 41
NCBI Official Symbol	Lrrc41
NCBI Official Synonym Symbols	RGD1311221
UniProt Protein Name	Leucine-rich repeat-containing protein 41
Protein Family	Leucine-rich repeat-containing protein
UniProt Gene Name	Lrrc41
UniProt Entry Name	LRC41_RAT
NCBI Protein Information	leucine-rich repeat-containing protein 41
UniProt Comments for LRRC41	LRRC41: Probable substrate recognition component of an ECS (Elongin BC-CUL2/5-SOCS-box protein) E3 ubiquitin ligase complex which mediates the ubiquitination and subsequent proteasomal degradation of target proteins. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Ubiquitin conjugating system Cellular Component: membrane; cytoplasm; nucleus Molecular Function: protein homodimerization activity Biological Process: protein ubiquitination
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