LEMD1 siRNA – LEM Domain-Containing Protein 1 Isoform 3 (Human)

PRODUCT OVERVIEW

Product Name	LEMD1, siRNA
Full Product Name	LEMD1 siRNA (Human)
Product Gene Name	LEMD1 sirna
Product Synonym Names	LEM domain-containing protein 1; Cancer/testis antigen 50; CT50; LEM domain protein 1; LEMP-1
Host	Synthetic
Species Reactivity	Human
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	LEMD1 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	7,503 Da
OMIM	610480
3D Structure	ModBase 3D Structure for Q68G75
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 LEMD1 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 LEMD1 sirna	RNA Interference (RNAi)
Related Product Information for LEMD1 sirna	MBS8212373 is an siRNA targeting LEMD1. Also known as LEMD1 siRNA (Human). Reactive in Human. Host: Synthetic. siRNA to inhibit LEMD1 expression using RNA interference
Other Notes	Small volumes of LEMD1 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 LEMD1. It may not necessarily be applicable to this product.

NCBI GI #	56676324
NCBI GeneID	93273
NCBI Accession #	NP_001001552.3
UniProt Primary Accession #	Q68G75
UniProt Secondary Accession #	Q6L9T9; Q6L9U0; Q6L9U1; Q6L9U2; Q6L9U3; Q6L9U4
UniProt Related Accession #	Q68G75
GenBank Nucleotide #	NM_001001552.4
NCBI Official Full Name	LEM domain-containing protein 1 isoform 3
NCBI Official Synonym Full Names	LEM domain containing 1
NCBI Official Symbol	LEMD1
NCBI Official Synonym Symbols	CT50; LEMP-1
UniProt Protein Name	LEM domain-containing protein 1
UniProt Synonym Protein Names	Cancer/testis antigen 50; CT50; LEM domain protein 1; LEMP-1
Protein Family	LEM domain-containing protein
UniProt Gene Name	LEMD1
UniProt Synonym Gene Names	CT50; LEMP-1
UniProt Entry Name	LEMD1_HUMAN
NCBI Protein Information	LEM domain-containing protein 1
UniProt Comments for LEMD1	LEMD1: 6 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, integral; Cancer Testis Antigen (CTA) Chromosomal Location of Human Ortholog: 1q32.1 Cellular Component: integral to membrane
Research Articles on LEMD1	**1.** Of the prostate cancer samples, 10, 10, 23 and 40% showed ODF1, ODF2, LEMD1 and SPATA19 specific bands, respectively, but none of the BPH samples expressed any of these genes.
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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