LEPREL4 siRNA – Synaptonemal Complex Protein SC65 (Human)

PRODUCT OVERVIEW

Product Name	LEPREL4, siRNA
Full Product Name	LEPREL4 siRNA (Human)
Product Gene Name	LEPREL4 sirna
Product Synonym Names	NOL55; SC65; Synaptonemal complex protein SC65; Leprecan-like protein 4; Nucleolar autoantigen No55
Host	Synthetic
Species Reactivity	Human
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	LEPREL4 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	50,381 Da
3D Structure	ModBase 3D Structure for Q92791
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 LEPREL4 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 LEPREL4 sirna	RNA Interference (RNAi)
Related Product Information for LEPREL4 sirna	MBS8238527 is an siRNA targeting LEPREL4. Also known as LEPREL4 siRNA (Human). Reactive in Human. Host: Synthetic. siRNA to inhibit LEPREL4 expression using RNA interference
Other Notes	Small volumes of LEPREL4 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 LEPREL4. It may not necessarily be applicable to this product.

NCBI GI #	5454038

NCBI GeneID	10609
NCBI Accession #	NP_006446.1
UniProt Primary Accession #	Q92791
UniProt Secondary Accession #	Q53GI6; Q9H4F6
UniProt Related Accession #	Q92791
GenBank Nucleotide #	NM_006455.2
NCBI Official Full Name	synaptonemal complex protein SC65
NCBI Official Synonym Full Names	prolyl 3-hydroxylase family member 4 (non-enzymatic)
NCBI Official Symbol	P3H4
NCBI Official Synonym Symbols	NO55; SC65; NOL55; LEPREL4
UniProt Protein Name	Synaptonemal complex protein SC65
UniProt Synonym Protein Names	Leprecan-like protein 4; Nucleolar autoantigen No55
UniProt Gene Name	LEPREL4
UniProt Synonym Gene Names	NOL55; SC65
UniProt Entry Name	SC65_HUMAN
NCBI Protein Information	synaptonemal complex protein SC65
NCBI Summary for LEPREL4	This nucleolar protein was first characterized because it was an autoantigen in cases on interstitial cystitis. The protein, with a predicted molecular weight of 50 kDa, appears to be localized in the particulate compartment of the interphase nucleolus, with a distribution distinct from that of nucleolar protein B23. During mitosis it is associated with chromosomes. [provided by RefSeq, Jul 2008]
UniProt Comments for LEPREL4	SC65: This nucleolar protein was first characterized because it was an autoantigen in cases on interstitial cystitis. The protein, with a predicted molecular weight of 50 kDa, appears to be localized in the particulate compartment of the interphase nucleolus, with a distribution distinct from that of nucleolar protein B23. During mitosis it is associated with chromosomes. [provided by RefSeq, Jul 2008] Protein type: Nucleolus; Unknown function Chromosomal Location of Human Ortholog: 17q21.2 Cellular Component: condensed nuclear chromosome; nucleolus; synaptonemal complex Biological Process: synaptonemal complex assembly
Research Articles on LEPREL4	**1.** SC65 protein is identified as an autoimmune target in idiopathic membranous nephropathy.
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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