LPHN2 siRNA – Adhesion G Protein-Coupled Receptor L2 Isoform 1 Preproprotein (Human)

PRODUCT OVERVIEW

Product Name	LPHN2, siRNA
Full Product Name	LPHN2 siRNA (Human)
Product Gene Name	LPHN2 sirna
Product Synonym Names	KIAA0786; LEC1; LPHH1; Latrophilin-2; Calcium-independent alpha-latrotoxin receptor 2; CIRL-2; Latrophilin homolog 1; Lectomedin-1
Species Reactivity	Human
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	LPHN2 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.
OMIM	607018
3D Structure	ModBase 3D Structure for O95490
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.
Source	Synthetic
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 LPHN2 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 LPHN2 sirna	RNA Interference (RNAi)
Related Product Information for LPHN2 sirna	MBS8239552 is an siRNA targeting LPHN2. Also known as LPHN2 siRNA (Human). Reactive in Human. siRNA to inhibit LPHN2 expression using RNA interference
Other Notes	Small volumes of LPHN2 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 LPHN2. It may not necessarily be applicable to this product.

NCBI GI #	663071057
NCBI GeneID	23266
NCBI Accession #	NP_001284633.1
UniProt Primary Accession #	O95490
UniProt Secondary Accession #	O94882; Q5VX76; Q9UKY5; A5XEI2; B1ALT8; B1ALT9; B1ALU0; B1ALU2; B1ALU4; B1ALU5; B1ALU6
UniProt Related Accession #	O95490
GenBank Nucleotide #	NM_001297704.1
NCBI Official Full Name	adhesion G protein-coupled receptor L2 isoform 1 preproprotein
NCBI Official Synonym Full Names	adhesion G protein-coupled receptor L2
NCBI Official Symbol	ADGRL2
NCBI Official Synonym Symbols	CL2; LEC1; CIRL2; LPHH1; LPHN2
UniProt Protein Name	Adhesion G protein-coupled receptor L2
UniProt Synonym Protein Names	Calcium-independent alpha-latrotoxin receptor 2; CIRL-2; Latrophilin homolog 1; Latrophilin-2; Lectomedin-1
UniProt Gene Name	ADGRL2
UniProt Synonym Gene Names	CIRL-2
UniProt Entry Name	AGRL2_HUMAN
NCBI Protein Information	adhesion G protein-coupled receptor L2
NCBI Summary for LPHN2	This gene encodes a member of the latrophilin subfamily of G-protein coupled receptors. The encoded protein participates in the regulation of exocytosis. The proprotein is thought to be further cleaved within a cysteine-rich G-protein-coupled receptor proteolysis site into two chains that are non-covalently bound at the cell membrane. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2014]
UniProt Comments for LPHN2	latrophilin 2: Calcium-independent receptor of low affinity for alpha- latrotoxin, an excitatory neurotoxin present in black widow spider venom which triggers massive exocytosis from neurons and neuroendocrine cells. Receptor propably implicated in the regulation of exocytosis. Belongs to the G-protein coupled receptor 2 family. LN-TM7 subfamily. 7 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, multi-pass; Membrane protein, integral; Receptor, GPCR; GPCR, family 2 Chromosomal Location of Human Ortholog: 1p31.1 Cellular Component: integral to membrane; plasma membrane Molecular Function: G-protein coupled receptor activity; latrotoxin receptor activity; carbohydrate binding Biological Process: G-protein coupled receptor protein signaling pathway
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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