SPNS2 siRNA – Protein Spinster Homolog 2 (Human)

PRODUCT OVERVIEW

Product Name	SPNS2, siRNA
Full Product Name	SPNS2 siRNA (Human)
Product Gene Name	SPNS2 sirna
Product Synonym Names	Protein spinster homolog 2
Host	Synthetic
Species Reactivity	Human
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	SPNS2 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	58,044 Da
OMIM	612584
3D Structure	ModBase 3D Structure for Q8IVW8
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 SPNS2 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 SPNS2 sirna	RNA Interference (RNAi)
Related Product Information for SPNS2 sirna	MBS8233085 is an siRNA targeting SPNS2. Also known as SPNS2 siRNA (Human). Reactive in Human. Host: Synthetic. siRNA to inhibit SPNS2 expression using RNA interference
Other Notes	Small volumes of SPNS2 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 SPNS2. It may not necessarily be applicable to this product.

NCBI GI #	185136021
NCBI GeneID	124976
NCBI Accession #	NP_001118230.1
UniProt Primary Accession #	Q8IVW8
UniProt Secondary Accession #	B9A1T3
UniProt Related Accession #	Q8IVW8
GenBank Nucleotide #	NM_001124758.1
NCBI Official Full Name	protein spinster homolog 2
NCBI Official Synonym Full Names	spinster homolog 2 (Drosophila)
NCBI Official Symbol	SPNS2
UniProt Protein Name	Protein spinster homolog 2
Protein Family	Protein spinster
UniProt Gene Name	SPNS2
UniProt Entry Name	SPNS2_HUMAN
NCBI Protein Information	protein spinster homolog 2
UniProt Comments for SPNS2	SPNS2: Sphingolipid transporter required for migration of myocardial precursors. Transports sphingosine 1-phosphate (S1P), a secreted lipid mediator that plays critical roles in cardiovascular, immunological, and neural development and function. Mediates the export of S1P from cells in the extraembryonic yolk syncytial layer (YSL), thereby regulating myocardial precursor migration. Belongs to the major facilitator (TC 2.A.1) superfamily. Spinster (TC 2.A.1.49) family. Protein type: Membrane protein, integral; Membrane protein, multi-pass Chromosomal Location of Human Ortholog: 17p13.2 Cellular Component: lysosomal membrane; integral to membrane; vesicle Molecular Function: sphingolipid transporter activity Biological Process: sphingolipid metabolic process; B cell homeostasis; regulation of humoral immune response; T cell homeostasis; regulation of eye pigmentation; lipid transport; locomotion; transmembrane transport; lymph node development
Research Articles on SPNS2	**1.** Spns2 plays key roles in regulating the cellular functions in non-small cell lung cancer (NSCLC) cells
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