SNPH siRNA – Syntaphilin (Human)

PRODUCT OVERVIEW

Product Name	SNPH, siRNA
Full Product Name	SNPH siRNA (Human)
Product Gene Name	SNPH sirna
Product Synonym Names	KIAA0374; Syntaphilin
Host	Synthetic
Species Reactivity	Human
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	SNPH 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	57,990 Da
OMIM	604942
3D Structure	ModBase 3D Structure for O15079
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 SNPH 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 SNPH sirna	RNA Interference (RNAi)
Related Product Information for SNPH sirna	MBS8234403 is an siRNA targeting SNPH. Also known as SNPH siRNA (Human). Reactive in Human. Host: Synthetic. siRNA to inhibit SNPH expression using RNA interference
Other Notes	Small volumes of SNPH 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 SNPH. It may not necessarily be applicable to this product.

NCBI GI #	38202246
NCBI GeneID	9751
NCBI Accession #	NP_055538.2
UniProt Primary Accession #	O15079
UniProt Secondary Accession #	Q8IYI3
UniProt Related Accession #	O15079
GenBank Nucleotide #	NM_014723.2
NCBI Official Full Name	syntaphilin
NCBI Official Synonym Full Names	syntaphilin
NCBI Official Symbol	SNPH
NCBI Official Synonym Symbols	bA314N13.5
UniProt Protein Name	Syntaphilin
Protein Family	Syntaphilin
UniProt Gene Name	SNPH
UniProt Synonym Gene Names	KIAA0374
UniProt Entry Name	SNPH_HUMAN
NCBI Protein Information	syntaphilin
NCBI Summary for SNPH	Syntaxin-1, synaptobrevin/VAMP, and SNAP25 interact to form the SNARE complex, which is required for synaptic vesicle docking and fusion. The protein encoded by this gene is membrane-associated and inhibits SNARE complex formation by binding free syntaxin-1. Expression of this gene appears to be brain-specific. [provided by RefSeq, Jul 2008]
UniProt Comments for SNPH	syntaphilin: Inhibits SNARE complex formation by absorbing free syntaxin-1. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, integral; Vesicle Chromosomal Location of Human Ortholog: 20p13 Cellular Component: presynaptic membrane; neuron projection; cell soma; cytoplasmic microtubule; mitochondrial membrane; cytoplasm; integral to membrane; cell junction Molecular Function: syntaxin-1 binding Biological Process: neuron differentiation; neurotransmitter secretion; brain development; synaptic vesicle docking during exocytosis
Research Articles on SNPH	**1.** Observational study of gene-disease association. (HuGE Navigator)
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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