KIFC1 siRNA – Kinesin-Like Protein KIFC1 (Mouse)

PRODUCT OVERVIEW

Product Name	KIFC1, siRNA
Full Product Name	KIFC1 siRNA (Mouse)
Product Gene Name	KIFC1 sirna
Product Synonym Names	KIFC4; KIFC5A; KIFC5B; Kinesin-like protein KIFC1
Host	Synthetic
Species Reactivity	Mouse
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	KIFC1 siRNA (Mouse) is a target-specific 19-23 nt siRNA oligo duplexes designed to knock down gene expression.
Preparation and Storage	Ships on blue ice. Store at -20 degree C for one year.
3D Structure	ModBase 3D Structure for Q9QWT9
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 mouse KIFC1 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 KIFC1 sirna	RNA Interference (RNAi)
Related Product Information for KIFC1 sirna	MBS8233800 is an siRNA targeting KIFC1. Also known as KIFC1 siRNA (Mouse). Reactive in Mouse. Host: Synthetic. siRNA to inhibit KIFC1 expression using RNA interference
Other Notes	Small volumes of KIFC1 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 KIFC1. It may not necessarily be applicable to this product.

NCBI GI #	305678350
NCBI GeneID	100502766

NCBI Accession #	NP_001182227.1
UniProt Primary Accession #	Q9QWT9
UniProt Secondary Accession #	O08671; O35230; Q497Y3; Q4A1N2; Q6PG90; Q8BV06; Q99L84; Q9JKZ0
UniProt Related Accession #	Q9QWT9
GenBank Nucleotide #	NM_001195298.1
NCBI Official Full Name	kinesin-like protein KIFC1
NCBI Official Synonym Full Names	kinesin family member C1
NCBI Official Symbol	Kifc1
NCBI Official Synonym Symbols	HSET; KNSL2; Gm4137; Kifc5a; Knsl2a; Tctex7; Tctex-7; Tctex7a; Tctex-7A; 100042970
UniProt Protein Name	Kinesin-like protein KIFC1
Protein Family	Kinesin-like protein
UniProt Gene Name	Kifc1
UniProt Entry Name	KIFC1_MOUSE
NCBI Protein Information	kinesin-like protein KIFC1
UniProt Comments for KIFC1	KIFC1: Minus end-directed microtubule-dependent motor required for bipolar spindle formation. May contribute to movement of early endocytic vesicles. Belongs to the kinesin-like protein family. NCD subfamily. Binds NUBP1 and NUBP2. Protein type: Microtubule-binding; Motility/polarity/chemotaxis; Motor Cellular Component: kinesin complex; membrane Molecular Function: minus-end-directed microtubule motor activity; ATPase activity Biological Process: mitotic sister chromatid segregation; spindle assembly; microtubule-based movement
Research Articles on KIFC1	**1.** Knockdown of KIFC5A dramatically reduces ciliogenesis.
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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