KLC3 siRNA – Kinesin Light Chain 3 (Rat)

PRODUCT OVERVIEW

Product Name	KLC3, siRNA
Full Product Name	KLC3 siRNA (Rat)
Product Gene Name	KLC3 sirna
Product Synonym Names	Kinesin light chain 3; Kinesin light chain KLCt
Host	Synthetic
Species Reactivity	Rat
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	KLC3 siRNA (Rat) 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	55,655 Da
3D Structure	ModBase 3D Structure for Q68G30
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 rat KLC3 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 KLC3 sirna	RNA Interference (RNAi)
Related Product Information for KLC3 sirna	MBS8217006 is an siRNA targeting KLC3. Also known as KLC3 siRNA (Rat). Reactive in Rat. Host: Synthetic. siRNA to inhibit KLC3 expression using RNA interference
Other Notes	Small volumes of KLC3 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 KLC3. It may not necessarily be applicable to this product.

NCBI GI #	19924049
NCBI GeneID	171549

NCBI Accession #	NP_612529.1
UniProt Primary Accession #	Q68G30
UniProt Secondary Accession #	Q9ESH7
UniProt Related Accession #	Q68G30
GenBank Nucleotide #	NM_138520.1
NCBI Official Full Name	kinesin light chain 3
NCBI Official Synonym Full Names	kinesin light chain 3
NCBI Official Symbol	Klc3
NCBI Official Synonym Symbols	Klct
UniProt Protein Name	Kinesin light chain 3
UniProt Synonym Protein Names	Kinesin light chain KLCt
Protein Family	Kinesin
UniProt Gene Name	Klc3
UniProt Entry Name	KLC3_RAT
NCBI Protein Information	kinesin light chain 3
NCBI Summary for KLC3	light chain of kinesin; may be involved in cargo binding and regulation of kinesin activity [RGD, Feb 2006]
UniProt Comments for KLC3	KLC3: Kinesin is a microtubule-associated force-producing protein that may play a role in organelle transport. Belongs to the kinesin light chain family. 3 isoforms of the human protein are produced by alternative splicing. Protein type: Microtubule-binding; Motor Cellular Component: ciliary rootlet; kinesin complex; microtubule; neuron projection; cell; cytoplasm; intracellular Molecular Function: kinesin binding; microtubule binding; microtubule motor activity Biological Process: metabolic process; axon cargo transport
Research Articles on KLC3	**1.** Can associate with mitochondria.
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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