CENPU siRNA – Centromere Protein U (Mouse)

PRODUCT OVERVIEW

Product Name	CENPU, siRNA
Full Product Name	CENPU siRNA (Mouse)
Product Gene Name	CENPU sirna
Product Synonym Names	MLF1IP; Centromere protein U; CENP-U; MLF1-interacting protein
Host	Synthetic
Species Reactivity	Mouse
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	CENPU siRNA (Mouse) 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	30,268 Da
3D Structure	ModBase 3D Structure for Q8C4M7
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 CENPU 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 CENPU sirna	RNA Interference (RNAi)
Related Product Information for CENPU sirna	MBS8205065 is an siRNA targeting CENPU. Also known as CENPU siRNA (Mouse). Reactive in Mouse. Host: Synthetic. siRNA to inhibit CENPU expression using RNA interference
Other Notes	Small volumes of CENPU 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 CENPU. It may not necessarily be applicable to this product.

NCBI GI #	47523382

NCBI GeneID	71876
NCBI Accession #	NP_082249.1
UniProt Primary Accession #	Q8C4M7
UniProt Secondary Accession #	Q6UNA2; Q9D9U1
UniProt Related Accession #	Q8C4M7
GenBank Nucleotide #	NM_027973.3
NCBI Official Full Name	centromere protein U
NCBI Official Synonym Full Names	centromere protein U
NCBI Official Symbol	Cenpu
NCBI Official Synonym Symbols	Mlf1ip; 1700029A22Rik
UniProt Protein Name	Centromere protein U
UniProt Synonym Protein Names	MLF1-interacting protein
Protein Family	Centromere protein
UniProt Gene Name	Cenpu
UniProt Synonym Gene Names	Mlf1ip; CENP-U
UniProt Entry Name	CENPU_MOUSE
NCBI Protein Information	centromere protein U
UniProt Comments for CENPU	CENPU: Component of the CENPA-NAC (nucleosome-associated) complex, a complex that plays a central role in assembly of kinetochore proteins, mitotic progression and chromosome segregation. The CENPA-NAC complex recruits the CENPA-CAD (nucleosome distal) complex and may be involved in incorporation of newly synthesized CENPA into centromeres. Plays an important role in the correct PLK1 localization to the mitotic kinetochores. A scaffold protein responsible for the initial recruitment and maintenance of the kinetochore PLK1 population until its degradation. Involved in transcriptional repression. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Cell cycle regulation Cellular Component: kinetochore; cytoplasm; microtubule organizing center; chromosome; nucleus; chromosome, pericentric region Molecular Function: protein binding Biological Process: chordate embryonic development; regulation of transcription, DNA-dependent; transcription, DNA-dependent
Research Articles on CENPU	**1.** MLF1-IP expression at about 50% of its normal level is sufficient to sustain mice life and the development of their immune system without apparent abnormalities.
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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