MRPS23 siRNA – 28s Ribosomal Protein S23, Mitochondrial Isoform B (Mouse)

PRODUCT OVERVIEW

Product Name	MRPS23, siRNA
Full Product Name	MRPS23 siRNA (Mouse)
Product Gene Name	MRPS23 sirna
Product Synonym Names	28S ribosomal protein S23 mitochondrial; MRP-S23; S23mt
Host	Synthetic
Species Reactivity	Mouse
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	MRPS23 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	20,348 Da
3D Structure	ModBase 3D Structure for Q8VE22
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 MRPS23 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 MRPS23 sirna	RNA Interference (RNAi)
Related Product Information for MRPS23 sirna	MBS8206120 is an siRNA targeting MRPS23. Also known as MRPS23 siRNA (Mouse). Reactive in Mouse. Host: Synthetic. siRNA to inhibit MRPS23 expression using RNA interference
Other Notes	Small volumes of MRPS23 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 MRPS23. It may not necessarily be applicable to this product.

NCBI GI #	602152737

NCBI GeneID	64656
NCBI Accession #	NP_001278199.1
UniProt Primary Accession #	Q8VE22
UniProt Secondary Accession #	Q9CXH1
UniProt Related Accession #	Q8VE22
GenBank Nucleotide #	NM_001291270.1
NCBI Official Full Name	28S ribosomal protein S23, mitochondrial isoform b
NCBI Official Synonym Full Names	mitochondrial ribosomal protein S23
NCBI Official Symbol	Mrps23
NCBI Official Synonym Symbols	S23mt; Rpms23; MRP-S23; D11Bwg1153e
UniProt Protein Name	28S ribosomal protein S23, mitochondrial
Protein Family	28S ribosomal protein
UniProt Gene Name	Mrps23
UniProt Synonym Gene Names	MRP-S23; S23mt
UniProt Entry Name	RT23_MOUSE
NCBI Protein Information	28S ribosomal protein S23, mitochondrial
UniProt Comments for MRPS23	MRPS23: Component of the mitochondrial ribosome small subunit (28S) which comprises a 12S rRNA and about 30 distinct proteins. Protein type: Mitochondrial; Ribosomal; Translation Cellular Component: intermediate filament cytoskeleton; nuclear membrane; mitochondrion; mitochondrial small ribosomal subunit; ribosome; ribonucleoprotein complex Molecular Function: structural constituent of ribosome Biological Process: translation
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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