NDUFB2 siRNA – NADH Dehydrogenase (Mouse)

PRODUCT OVERVIEW

Product Name	NDUFB2, siRNA
Full Product Name	NDUFB2 siRNA (Mouse)
Product Gene Name	NDUFB2 sirna
Product Synonym Names	NADH dehydrogenase [ubiquinone] 1 beta subcomplex subunit 2 mitochondrial; Complex I-AGGG; CI-AGGG; NADH-ubiquinone oxidoreductase AGGG subunit
Host	Synthetic
Species Reactivity	Mouse
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	NDUFB2 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	11,967 Da
3D Structure	ModBase 3D Structure for Q9CPU2
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 NDUFB2 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 NDUFB2 sirna	RNA Interference (RNAi)
Related Product Information for NDUFB2 sirna	MBS8211057 is an siRNA targeting NDUFB2. Also known as NDUFB2 siRNA (Mouse). Reactive in Mouse. Host: Synthetic. siRNA to inhibit NDUFB2 expression using RNA interference
Other Notes	Small volumes of NDUFB2 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 NDUFB2. It may not necessarily be applicable to this product.

NCBI GI #	13386096
NCBI GeneID	68198
NCBI Accession #	NP_080888.1
UniProt Primary Accession #	Q9CPU2
UniProt Related Accession #	Q9CPU2
GenBank Nucleotide #	NM_026612.3
NCBI Official Full Name	NADH dehydrogenase
NCBI Official Synonym Full Names	NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 2
NCBI Official Symbol	Ndufb2
NCBI Official Synonym Symbols	8kDa; AGGG; CI-AGGG; AI325567; 1810011O01Rik
UniProt Protein Name	NADH dehydrogenase [ubiquinone] 1 beta subcomplex subunit 2, mitochondrial
UniProt Synonym Protein Names	Complex I-AGGG; CI-AGGG; NADH-ubiquinone oxidoreductase AGGG subunit
UniProt Gene Name	Ndufb2
UniProt Synonym Gene Names	CI-AGGG
UniProt Entry Name	NDUB2_MOUSE
NCBI Protein Information	NADH dehydrogenase [ubiquinone] 1 beta subcomplex subunit 2, mitochondrial
UniProt Comments for NDUFB2	NDUFB2: Accessory subunit of the mitochondrial membrane respiratory chain NADH dehydrogenase (Complex I), that is believed not to be involved in catalysis. Complex I functions in the transfer of electrons from NADH to the respiratory chain. The immediate electron acceptor for the enzyme is believed to be ubiquinone. Belongs to the complex I NDUFB2 subunit family. Protein type: Mitochondrial Cellular Component: membrane; mitochondrion; mitochondrial inner membrane; mitochondrial respiratory chain complex I Biological Process: transport
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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