COX6C siRNA – Cytochrome C Oxidase Subunit 6c Proprotein (Human)

PRODUCT OVERVIEW

Product Name	COX6C, siRNA
Full Product Name	COX6C siRNA (Human)
Product Gene Name	COX6C sirna
Product Synonym Names	Cytochrome c oxidase subunit 6C; Cytochrome c oxidase polypeptide VIc
Host	Synthetic
Species Reactivity	Human
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	COX6C siRNA (Human) 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	8,781 Da
OMIM	124090
3D Structure	ModBase 3D Structure for P09669
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 human COX6C 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 COX6C sirna	RNA Interference (RNAi)
Related Product Information for COX6C sirna	MBS8206531 is an siRNA targeting COX6C. Also known as COX6C siRNA (Human). Reactive in Human. Host: Synthetic. siRNA to inhibit COX6C expression using RNA interference
Other Notes	Small volumes of COX6C 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 COX6C. It may not necessarily be applicable to this product.

NCBI GI #	4758040
NCBI GeneID	1345
NCBI Accession #	NP_004365.1
UniProt Primary Accession #	P09669
UniProt Secondary Accession #	B2R4D7
UniProt Related Accession #	P09669
GenBank Nucleotide #	NM_004374.3
NCBI Official Full Name	cytochrome c oxidase subunit 6C proprotein
NCBI Official Synonym Full Names	cytochrome c oxidase subunit VIc
NCBI Official Symbol	COX6C
UniProt Protein Name	Cytochrome c oxidase subunit 6C
UniProt Synonym Protein Names	Cytochrome c oxidase polypeptide VIc
Protein Family	Cytochrome c oxidase
UniProt Gene Name	COX6C
UniProt Entry Name	COX6C_HUMAN
NCBI Protein Information	cytochrome c oxidase subunit 6C
NCBI Summary for COX6C	Cytochrome c oxidase, the terminal enzyme of the mitochondrial respiratory chain, catalyzes the electron transfer from reduced cytochrome c to oxygen. It is a heteromeric complex consisting of 3 catalytic subunits encoded by mitochondrial genes and multiple structural subunits encoded by nuclear genes. The mitochondrially-encoded subunits function in electron transfer, and the nuclear-encoded subunits may be involved in the regulation and assembly of the complex. This nuclear gene encodes subunit VIc, which has 77% amino acid sequence identity with mouse subunit VIc. This gene is up-regulated in prostate cancer cells. A pseudogene has been found on chromosomes 16p12. [provided by RefSeq, Jul 2010]
UniProt Comments for COX6C	COX6C: This protein is one of the nuclear-coded polypeptide chains of cytochrome c oxidase, the terminal oxidase in mitochondrial electron transport. Belongs to the cytochrome c oxidase subunit 6c family. Protein type: Membrane protein, integral; Oxidoreductase; EC 1.9.3.1; Mitochondrial; Energy Metabolism - oxidative phosphorylation Chromosomal Location of Human Ortholog: 8q22.2 Cellular Component: mitochondrion; mitochondrial inner membrane; integral to membrane Molecular Function: cytochrome-c oxidase activity Biological Process: cellular metabolic process; generation of precursor metabolites and energy; transmembrane transport
Research Articles on COX6C	**1.** Within the first 3h of infection with influenza virus, significant down-regulation of hsa-miRNA-4276 is followed by a 2-fold increase in cytochrome c oxidase VIc mRNA was found to occur in human alveolar and bronchial epithelial cells.
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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