Cytochrome C Oxidase Subunit 4 Isoform 2, Mitochondrial (COX4I2) Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	Cytochrome c oxidase subunit 4 isoform 2, mitochondrial (COX4I2), Recombinant Protein
Full Product Name	Recombinant Human Cytochrome c oxidase subunit 4 isoform 2, mitochondrial (COX4I2) , partial
Product Gene Name	COX4I2 recombinant protein
Product Synonym Gene Name	COX4I2
Sequence	MHSSEGTTRG GGKMSPYTNC YAQRYYPMPE EPFCTELNAE EQALKEKEKG SWTQLTHAEK VALYRLQFNE TFAEMNRRSN EWKT
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	20,010 Da
Sequence Positions	21-104. Partial.
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
OMIM	607976
3D Structure	ModBase 3D Structure for Q96KJ9
Species	Human
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for COX4I2 recombinant protein	Cytochrome c oxidase (COX), 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 isoform 2 of subunit IV. Isoform 1 of subunit IV is encoded by a different gene, however, the two genes show a similar structural organization. Subunit IV is the largest nuclear encoded subunit which plays a pivotal role in COX regulation.
Other Notes	Small volumes of COX4I2 recombinant protein 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.
Searchable Terms for COX4I2 purchase	MBS1358500 is a recombinant protein targeting COX4I2. Also known as Recombinant Human Cytochrome c oxidase subunit 4 isoform 2, mitochondrial (COX4I2) , partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for COX4I2. It may not necessarily be applicable to this product.

NCBI GI #	17999526
NCBI GeneID	84701
NCBI Accession #	NP_115998.2
UniProt Primary Accession #	Q96KJ9
UniProt Secondary Accession #	Q6GTF4; Q9H0Z4
UniProt Related Accession #	Q96KJ9
GenBank Nucleotide #	NM_032609.2
NCBI Official Full Name	cytochrome c oxidase subunit 4 isoform 2, mitochondrial
NCBI Official Synonym Full Names	cytochrome c oxidase subunit 4I2
NCBI Official Symbol	COX4I2
NCBI Official Synonym Symbols	COX4; COX4B; COX4-2; COX4L2; COXIV-2; dJ857M17.2
UniProt Protein Name	Cytochrome c oxidase subunit 4 isoform 2, mitochondrial
UniProt Synonym Protein Names	Cytochrome c oxidase subunit IV isoform 2; COX IV-2
UniProt Gene Name	COX4I2
UniProt Synonym Gene Names	COX4L2; COX IV-2
NCBI Protein Information	cytochrome c oxidase subunit 4 isoform 2, mitochondrial
UniProt Comments for COX4I2	This protein is one of the nuclear-coded polypeptide chains of cytochrome c oxidase, the terminal oxidase in mitochondrial electron transport.
Research Articles on COX4I2	**1.** Identification of three transcription factors that bind a conserved responsive element of the COX4I2 gene, namely recombination signal sequence-binding protein Jkappa (RBPJ), coiled-coil-helix-coiled-coil-helix domain 2 (CHCHD2) and CXXC finger protein 5 (CXXC5).
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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