COX7A1 Blocking Peptide – The purity is >90%,tested by HPLC and MS. Purity

PRODUCT OVERVIEW

Product Name	COX7A1, Blocking Peptide
Full Product Name	COX7A1 Blocking Peptide
Product Gene Name	COX7A1 blocking peptide
Product Synonym Names	COX7A; COX7A1; COX7AH; COX7AM; CX7A1_HUMAN; Cytochrome c oxidase subunit 7A1; Cytochrome c oxidase subunit 7A1 mitochondrial; Cytochrome c oxidase subunit VIIa H; Cytochrome c oxidase subunit VIIa heart; Cytochrome c oxidase subunit VIIa heart/muscle isoform; Cytochrome c oxidase subunit VIIa M; Cytochrome c oxidase subunit VIIa muscle; Cytochrome c oxidase subunit VIIa polypeptide 1 (muscle); Cytochrome c oxidase subunit VIIa polypeptide 1; Cytochrome c oxidase subunit VIIa-H; Cytochrome c oxidase subunit VIIa-heart; Cytochrome c oxidase subunit VIIa-M; Cytochrome c oxidase subunit VIIa-muscle; mitochondrial
Form/Format	Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 10 mg/ml.
Purity/Purification	The purity is >90%,tested by HPLC and MS.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	COX7A1 peptide (MBS9620434) is used for blocking the activity of COX7A1 antibody (MBS9602957)
OMIM	123995
Supply Chain Verification	Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire.
Notes	For phospho antibody, we provide phospho peptide (0.5mg) and non-phospho peptide (0.5mg)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for COX7A1 blocking peptide	Blocking/Control
Related Product Information for COX7A1 blocking peptide	Blocking peptides are peptides that bind specifically to the target antibody and block antibody binding. These peptide usually contains the epitope recognized by the antibody. Antibodies bound to the blocking peptide no longer bind to the epitope on the target protein. This mechanism is useful when non-specific binding is an issue, for example, in Western blotting (immunoblot) and immunohistochemistry (IHC). By comparing the staining from the blocked antibody versus the antibody alone, one can see which staining is specific; Specific binding will be absent from the western blot or immunostaining performed with the neutralized antibody.
Other Notes	Small volumes of COX7A1 blocking peptide 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 COX7A1 purchase	MBS9620434 is a blocking peptide targeting COX7A1.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for COX7A1. It may not necessarily be applicable to this product.

NCBI GI #	4502987
NCBI GeneID	1346
NCBI Accession #	NP_001855.1
UniProt Primary Accession #	P24310

UniProt Related Accession #	P24310
GenBank Nucleotide #	NM_001864.3
NCBI Official Full Name	cytochrome c oxidase subunit 7A1, mitochondrial
NCBI Official Synonym Full Names	cytochrome c oxidase subunit 7A1
NCBI Official Symbol	COX7A1
NCBI Official Synonym Symbols	COX7A; COX7AH; COX7AM
UniProt Protein Name	Cytochrome c oxidase subunit 7A1, mitochondrial
UniProt Synonym Protein Names	Cytochrome c oxidase subunit VIIa-heart; Cytochrome c oxidase subunit VIIa-H; Cytochrome c oxidase subunit VIIa-muscle; Cytochrome c oxidase subunit VIIa-M
Protein Family	Cytochrome c oxidase
UniProt Gene Name	COX7A1
UniProt Synonym Gene Names	COX7AH; Cytochrome c oxidase subunit VIIa-H; Cytochrome c oxidase subunit VIIa-M
UniProt Entry Name	CX7A1_HUMAN
NCBI Protein Information	cytochrome c oxidase subunit 7A1, mitochondrial
NCBI Summary for COX7A1	Cytochrome c oxidase (COX), the terminal component of the mitochondrial respiratory chain, catalyzes the electron transfer from reduced cytochrome c to oxygen. This component 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 function in the regulation and assembly of the complex. This nuclear gene encodes polypeptide 1 (muscle isoform) of subunit VIIa and the polypeptide 1 is present only in muscle tissues. Other polypeptides of subunit VIIa are present in both muscle and nonmuscle tissues, and are encoded by different genes. [provided by RefSeq, Jul 2008]
UniProt Comments for COX7A1	COX7A1: 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 VIIa family. Protein type: Membrane protein, integral Chromosomal Location of Human Ortholog: 19q13.1 Cellular Component: mitochondrion; integral to membrane; mitochondrial respiratory chain Molecular Function: cytochrome-c oxidase activity Biological Process: generation of precursor metabolites and energy
Research Articles on COX7A1	**1.** We demonstrate a developmental isoform switch of COX6A and COX7A subunits in human and mouse skeletal muscle
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