

Recombinant Human COX7A2, GST-tagged

Cat. No. COX7A2-11500H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human COX7A2 protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.
Species	Human
Source	E.coli
ProteinLength	1-83a.a.
Description	Cytochrome c oxidase, 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 three catalytic subunits encoded by mitochondrial genes, and multiple structural subunits encoded by nuclear genes. The mitochondrially-encoded subunits function in electron transfer, while the nuclear-encoded subunits may function in the regulation and assembly of the complex. This nuclear gene encodes polypeptide 2 (liver isoform) of subunit VIIa, with this polypeptide being present in both muscle and non-muscle tissues. In addition to polypeptide 2, subunit VIIa includes polypeptide 1 (muscle isoform), which is present only in muscle tissues, and a related protein, which is present in all tissues. Alternative splicing results in multiple transcript variants. Related pseudogenes have been identified on chromosomes 4 and 14.
Storage	The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.

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Storage Buffer

1M PBS (58mM Na₂HPO₄, 17mM NaH₂PO₄, 68mM NaCl, pH8.) added with 100mM GSH and 1% Triton X-100, 15% glycerol.

GENE INFORMATION
Gene Name

COX7A2 cytochrome c oxidase subunit VIIa polypeptide 2 (liver) [Homo sapiens]

Official Symbol

COX7A2

Synonyms

COX7A2; COX7AL; COX7AL1; COXVIIa L; COXVIIAL; CX7A2_HUMAN; Cytochrome c oxidase polypeptide 7A2 mitochondrial; Cytochrome c oxidase polypeptide VIIa liver/heart; Cytochrome c oxidase subunit 7A2; Cytochrome c oxidase subunit 7A2 mitochondrial; Cytochrome c oxidase subunit VIIa polypeptide 2; Cytochrome c oxidase subunit VIIa-L; Cytochrome c oxidase subunit VIIa-liver/heart; Cytochrome c oxidase subunit VIIaL; Hepatic cytochrome c oxidase chain VIIa; MGC118950; MGC118951; MGC118952; MGC126875; MGC126877; mitochondrial; VIIAL;

Gene ID

1347

mRNA Refseq

NM_001865.3

Protein Refseq

NP_001856.2

MIM

123996

UniProt ID

H0UI06

Chromosome Location

6q12

Pathway

Alzheimers disease, organism-specific biosystem; Alzheimers disease, conserved

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biosystem; Cardiac muscle contraction, organism-specific biosystem; Cardiac muscle contraction, conserved biosystem; Cytochrome c oxidase, organism-specific biosystem; Cytochrome c oxidase, conserved biosystem; Electron Transport Chain, organism-specific biosystem;

Function

cytochrome-c oxidase activity; electron carrier activity;

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