

Recombinant Human COX7A2 protein, GST-tagged

Cat. No. COX7A2-12H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human COX7A2(1 a.a. - 56 a.a.) fused with GST tag at N-terminal was expressed in Wheat Germ.
Species	Human
Source	Wheat Germ
ProteinLength	1-56 a.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.
Form	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Molecular Mass	31.9 kDa

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AA Sequence	MLRNLLALRQIGQRTISTASRRHFKNKVPEKQKLFQEDDEIPLYLKGGVADALLYR
Applications	Enzyme-linked Immunoabsorbent Assay; Western Blot (Recombinant protein); Antibody Production; Protein Array
Notes	Best use within three months from the date of receipt of this protein.
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
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
MIM	123996

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UniProt ID	H0UI06
Chromosome Location	6q12
Pathway	Alzheimers disease, organism-specific biosystem; Alzheimers disease, conserved 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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