Recombinant Human COX7A2L protein, His-tagged

Cat. No. COX7A2L-16H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human COX7A2L fused with His tag at N-terminal was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	1-114 aa
Description	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 a protein similar to polypeptides 1 and 2 of subunit VIIa in the C-terminal region, and also highly similar to the mouse Sig81 protein sequence. This gene is expressed in all tissues, and upregulated in a breast cancer cell line after estrogen treatment. It is possible that this gene represents a regulatory subunit of COX and mediates the higher level of energy production in target cells by estrogen.
Form	25mM Tris, pH8.0, 150 mM NaCl, 10% glycerol, 1 % Sarkosyl. Store at -80C. Avoid repeated freeze-thaw cycles.
Molecular Mass	12.6 kDa

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Purity	>80% as determined by SDS-PAGE and Coomassie blue staining
Storage	Stable for at least 3 months from receipt of products under proper storage and handling conditions.
Concentration	>50 ug/mL as determined by microplate BCA method

GENE INFORMATION

Gene Name	COX7A2L cytochrome c oxidase subunit VIIa polypeptide 2 like [Homo sapiens]
Official Symbol	COX7A2L
Synonyms	COX7A2L; cytochrome c oxidase subunit VIIa polypeptide 2 like; cytochrome c oxidase subunit 7A-related protein, mitochondrial; COX7AR; COX7RP; EB1; SIG81; COX7a-related protein; estrogen receptor binding CpG island; cytochrome c oxidase subunit VII-related protein; cytochrome c oxidase subunit VIIa-related protein;
Gene ID	9167
mRNA Refseq	NM_004718
Protein Refseq	NP_004709
MIM	605771
UniProt ID	O14548
Chromosome Location	2p21
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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