

Recombinant Human COX6C, GST-tagged

Cat. No. COX6C-11498H Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Human COX6C protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.

Species Human

Source E.coli

ProteinLength 1-75a.a.

Description Cytochrome c oxidase, 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 subunit VIc, which has 77% amino acid sequence identity with mouse subunit VIc. This gene is up-regulated in prostate cancer cells. A pseudogene has been found on chromosomes 16p12.

Storage The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.

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

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GENE INFORMATION

Gene Name	COX6C cytochrome c oxidase subunit VIc [Homo sapiens]
Official Symbol	COX6C
Synonyms	COX6C; cytochrome c oxidase subunit VIc; cytochrome c oxidase subunit 6C; cytochrome c oxidase polypeptide VIc; cytochrome c oxidase subunit VIc preprotein;
Gene ID	1345
mRNA Refseq	NM_004374
Protein Refseq	NP_004365
MIM	124090
UniProt ID	P09669
Chromosome Location	8q22.2
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;

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