

Recombinant Human COX4I1 Protein, GST-tagged

Cat. No. COX4I1-1742H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human COX4I1 full-length ORF (AAH08704, 1 a.a. - 169 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	Wheat Germ
Description	<p>Cytochrome c oxidase (COX) is the terminal enzyme of the mitochondrial respiratory chain. It is a multi-subunit enzyme complex that couples the transfer of electrons from cytochrome c to molecular oxygen and contributes to a proton electrochemical gradient across the inner mitochondrial membrane. The complex consists of 13 mitochondrial- and nuclear-encoded subunits. The mitochondrially-encoded subunits perform the electron transfer and proton pumping activities. The functions of the nuclear-encoded subunits are unknown but they may play a role in the regulation and assembly of the complex. This gene encodes the nuclear-encoded subunit IV isoform 1 of the human mitochondrial respiratory chain enzyme. It is located at the 3' of the NOC4 (neighbor of COX4) gene in a head-to-head orientation, and shares a promoter with it. Pseudogenes related to this gene are located on chromosomes 13 and 14. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Jan 2016]</p>
Molecular Mass	44.33 kDa
AA Sequence	MLATRVFSLVKGKRAISTSVCVRAHESVVKSEDFSLPAYMDRRDHPLPEVAHVKHLA

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SQKALKEKEKASWSSLSMDEKVELYRIKFKESFAEMNRGSNEWKTVVGGAMFFIGF
 TALVIMWQKHVYVGPLPQSFDKEWVAKQTKRMLDMKVNPIQGLASKWDYEKNEWK
 K

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.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name	COX411 cytochrome c oxidase subunit IV isoform 1 [Homo sapiens]
Official Symbol	COX411
Synonyms	COX411; cytochrome c oxidase subunit IV isoform 1; COX4, cytochrome c oxidase subunit IV; cytochrome c oxidase subunit 4 isoform 1, mitochondrial; COX4 1; COX IV-1; cytochrome c oxidase polypeptide IV; COX4; COXIV; COX4-1; FLJ23483; MGC72016;
Gene ID	1327
mRNA Refseq	NM_001861
Protein Refseq	NP_001852

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MIM 123864

UniProt ID P13073

Quality Control

Testing:



12.5% SDS-PAGE Stained with Coomassie Blue.

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