

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	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]
Molecular Mass	44.33 kDa
AA Sequence	MLATRVFSLVGKRAISTSVCVRAHESVVKSEDFSLPAYMDRRDHPLPEVAHVKHLA

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SQKALKEKEKASWSSLSMDEKVELYRIKFESFAEMNRGSNEWKTVVGGAMFFIGF
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

COX4I1 cytochrome c oxidase subunit IV isoform 1 [Homo sapiens]

Official Symbol

COX4I1

Synonyms

COX4I1; 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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