

Recombinant Human COX4I1

Cat. No. COX4I1-26361TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length, Human COX IV with proprietary tag, Predicted MW 44.33 kDa.
Species	Human
Source	Wheat Germ
ProteinLength	169 amino acids
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.
Molecular Weight	44.330kDa inclusive of tags
Tissue specificity	Ubiquitous.

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Form	Liquid
Purity	Proprietary Purification
Storage buffer	pH: 8.00Constituents:0.31% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	MLATRVFSLVGKRAISTSVCVRAHESVVKSEDFSLPAYMDRRDHPLPEVAHVKHLSA SQKALKEKEKASWSSLSMDEKVELYRIKFESFAEMNRGSNEWKTVVGGAMFFIGF TALVIMWQKHVYVGPLPQSFDKEWVAKQTKRMLDMKVNPIQGLASKWDYEKNEWK K
Sequence Similarities	Belongs to the cytochrome c oxidase IV family.
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;
Gene ID	1327
mRNA Refseq	NM_001861
Protein Refseq	NP_001852

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MIM	123864
Uniprot ID	P13073
Chromosome Location	16q24.1
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;
Function	cytochrome-c oxidase activity;

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