

Recombinant Human COX15

Cat. No. COX15-26362TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment of Human COX15 with an N terminal proprietary tag; Predicted MWt 32.34 kDa.
Species	Human
Source	Wheat Germ
ProteinLength	61 amino acids
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 which is not a structural subunit, but may be essential for the biogenesis of COX formation and may function in the hydroxylation of heme O, according to the yeast mutant studies. This protein is predicted to contain 5 transmembrane domains localized in the mitochondrial inner membrane. Alternative splicing of this gene generates two transcript variants diverging in the 3 region.
Molecular Weight	32.340kDa inclusive of tags
Tissue specificity	Predominantly found in tissues characterized by high rates of oxidative phosphorylation (OxPhos), including muscle, heart, and brain.

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Form	Liquid
Purity	Proprietary Purification
Storage buffer	pH: 8.00Constituents:0.3% 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	LTESGLSMVDWHLIKEMKPPTSQEEWEAEFQRYQQFPEFKILNHDMTLTEFKFIWY MEYSH
Sequence Similarities	Belongs to the COX15/CtaA family.

GENE INFORMATION

Gene Name	COX15 COX15 homolog, cytochrome c oxidase assembly protein (yeast) [Homo sapiens]
Official Symbol	COX15
Synonyms	COX15; COX15 homolog, cytochrome c oxidase assembly protein (yeast); COX15 (yeast) homolog, cytochrome c oxidase assembly protein; cytochrome c oxidase assembly protein COX15 homolog;
Gene ID	1355
mRNA Refseq	NM_004376
Protein Refseq	NP_004367

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MIM	603646
Uniprot ID	Q7KZN9
Chromosome Location	10q24
Pathway	Cytochrome c oxidase, organism-specific biosystem; Cytochrome c oxidase, conserved biosystem; Electron Transport Chain, organism-specific biosystem; Metabolic pathways, organism-specific biosystem; Oxidative phosphorylation, organism-specific biosystem;
Function	catalytic activity; contributes_to cytochrome-c oxidase activity; cytochrome-c oxidase activity; oxidoreductase activity, acting on the CH-CH group of donors;

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