Recombinant Human COX15, GST-tagged

Cat. No. COX15-11486H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human COX15 protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.
Species	Human
Source	E.coli
ProteinLength	1-410a.a.
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.
Storage	The protein is stored in PBS buffer at -20℃. Avoid repeated freezing and thawing cycles.
Storage Buffer	1M PBS (58mM Na2HPO4,17mM NaH2PO4, 68mM NaCl, pH8.) added with 100mM

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	GSH and 1% Triton X-100,15%glycerol.

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; cytochrome c oxidase subunit 15;
Gene ID	1355
mRNA Refseq	NM_004376
Protein Refseq	NP_004367
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; Oxidative phosphorylation, conserved biosystem; Porphyrin and chlorophyll metabolism, organism-specific biosystem;

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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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