

Recombinant Full Length Human COX10 Protein, GST-tagged

Cat. No. COX10-1992HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human COX10 full-length ORF (AAH06394, 1 a.a. - 443 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	443 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 heme A:farnesyltransferase, which is not a structural subunit but required for the expression of functional COX and functions in the maturation of the heme A prosthetic group of COX. This protein is predicted to contain 7-9 transmembrane domains localized in the mitochondrial inner membrane. A gene mutation, which results in the substitution of a lysine for an asparagine (N204K), is identified to be responsible for cytochrome c oxidase deficiency. In addition, this gene is disrupted in patients with CMT1A (Charcot-Marie-Tooth type 1A) duplication and with HNPP (hereditary neuropathy with liability to pressure palsies) deletion. [provided by RefSeq, Jul 2008]

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Molecular Mass	74.36 kDa
AA Sequence	MAASPHTLSSRLLTGCVGGSVWYLERRTIQDSPHKFLHLLRNVNKQWITFQHFSFLK RMYVTQLNRSHNQVRPKPEPVASPFLEKTSSGQAKAEIYEMRPLSPPSLSLSRKP NEKELIELEPDSVIEDSIDVGKETKEEKRWKEMKLQVYDLPGILAQLSKIKLTALVVST TAAGFALAPGPFDPWPCFLLTSVGTGLASCAANSINQFFEVPFDSNMNRTKNRPLVR GQISPLLAVSFATCCAVPGVAILTLGVNPLTGALGLFNIFLYTCCYTPLKRISIANWV GAVVGAIPPVMGWTAATGSLDAGAFLLGGILYSWQFPFHNALSWGLREDYSRGGY CMMSVTHPGLCRRVALRHCLALLVLSAAAPVLDITTWTFPIMALPINAYISYLGFRFYV DADRRSSRRLFFCSLWHLPLLLLLMLTCKRPSGGGDAGPPPS
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	COX10 COX10 homolog, cytochrome c oxidase assembly protein, heme A: farnesyltransferase (yeast) [Homo sapiens]
Official Symbol	COX10
Synonyms	COX10; COX10 homolog, cytochrome c oxidase assembly protein, heme A: farnesyltransferase (yeast); COX10 (yeast) homolog, cytochrome c oxidase assembly

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protein (heme A: farnesyltransferase); protoheme IX farnesyltransferase, mitochondrial; heme O synthase; heme A: farnesyltransferase; cytochrome c oxidase subunit X; cytochrome c oxidase assembly protein

Gene ID 1352

mRNA Refseq NM_001303

Protein Refseq NP_001294

MIM 602125

UniProt ID Q12887

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