Recombinant Full Length Human COX6A1 Protein, GST-tagged

Cat. No. COX6A1-2010HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human COX6A1 full-length ORF (AAH07723, 1 a.a. - 109 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	109 amino acids
Description	Cytochrome c oxidase (COX), the terminal enzyme of the mitochondrial respiratory chain, catalyzes the electron transfer from reduced cytochrome c to oxygen. It 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 the electron transfer and the nuclear-encoded subunits may function in the regulation and assembly of the complex. This nuclear gene encodes polypeptide 1 (liver isoform) of subunit VIa, and polypeptide 1 is found in all non-muscle tissues. Polypeptide 2 (heart/muscle isoform) of subunit VIa is encoded by a different gene, and is present only in striated muscles. These two polypeptides share 66% amino acid sequence identity. It has been reported that there may be several pseudogenes on chromosomes 1, 6, 7q21, 7q31-32 and 12. However, only one pseudogene (COX6A1P) on chromosome 1p31.1 has been documented. [provided by RefSeq, Jul 2008]
Molecular Mass	37.73 kDa

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

AA Sequence	MAVVGVSSVSRLLGRSRPQLGRPMSSGAHGEEGSARMWKTLTFFVALPGVAVSML NVYLKSHHGEHERPEFIAYPHLRIRTKPFPWGDGNHTLFHNPHVNPLPTGYEDE
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	COX6A1 cytochrome c oxidase subunit VIa polypeptide 1 [Homo sapiens]
Official Symbol	COX6A1
Synonyms	COX6A1; cytochrome c oxidase subunit VIa polypeptide 1; COX6A; cytochrome c oxidase subunit 6A1, mitochondrial; COX VIa-L; cytochrome c oxidase subunit VIA-liver; cytochrome C oxidase subunit VIa homolog; cytochrome c oxidase polypeptide VIa-liver; COX6AL; MGC104500
Gene ID	1337
mRNA Refseq	NM_004373
Protein Refseq	NP_004364

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MIM	602072
UniProt ID	P12074

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