

Recombinant Human COX6A1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. COX6A1-5841H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	COX6A1 MS Standard C13 and N15-labeled recombinant protein (NP_004364) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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.
Molecular Mass	12.2 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	MAVVGVS SVSRLLGRSRPQLGRPMSSGAHGEEGSARMWKTLTFFVALPGVAVSML NVYLKSHHGEHERPEFIAYPHLRIRTKPFPWGDGNHTLFHNPHVNPLPTGYEDET RT RPLEQKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name	COX6A1 cytochrome c oxidase subunit VIa polypeptide 1 [Homo sapiens (human)]
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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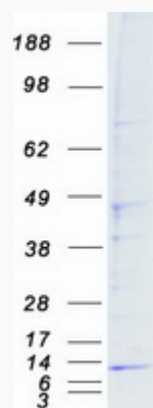
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MIM 602072

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SDS-PAGE



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