Recombinant Full Length Human COX6A1 Protein, Flag tagged

Cat. No. COX6A1-12HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant protein of human cytochrome c oxidase subunit VIa polypeptide 1 (COX6A1), nuclear gene encoding mitochondrial protein with Flag tag was expressed in HEK293T.
Species	Human
Source	HEK293T
ProteinLength	1-109 aa
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.

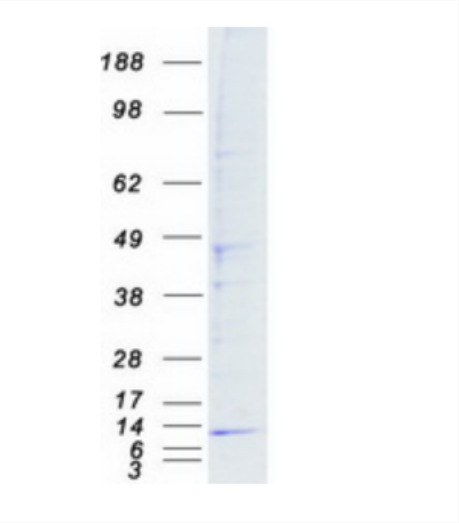
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Form	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Molecular Mass	9.6 kDa
AASequence	MAVVGVSSVSRLLGRSRPQLGRPMSSGAHGEEGSARMWKTLTFFVALPGVAVSML NVYLKSHHGEHERPEFIAYPHLRIRTKPFPWGDGNHTLFHNPHVNPLPTGYEDETRT RPLEQKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Notes	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage	Store at -80 centigrade. Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Concentration	> 0.05 μg/μL as determined by microplate BCA method

GENE INFORMATION

Gene Name	COX6A1 cytochrome c oxidase subunit 6A1 [Homo sapiens (human)]
Official Symbol	COX6A1
Synonyms	COX6A1; cytochrome c oxidase subunit 6A1; COX6A; CMTRID; COX6AL; cytochrome c oxidase subunit 6A1, mitochondrial; COX VIa-L; cytochrome C oxidase subunit VIa homolog; cytochrome c oxidase polypeptide VIa-liver; cytochrome c oxidase subunit VIA-liver; cytochrome c oxidase subunit VIa liver isoform; cytochrome c oxidase subunit VIa polypeptide 1; EC 7.1.1.9
Gene ID	1337

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mRNA Refseq	NM_004373
Protein Refseq	NP_004364
MIM	602072
UniProt ID	P12074
SDS-PAGE and WB	

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