

Recombinant Full Length Human COX6A1 Protein

Cat. No. COX6A1-91HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human COX6A1 with N terminal proprietary tag; Predicted MW 37.73 kDa.
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.
Form	Liquid

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Molecular Mass	37.730kDa inclusive of tags
AA Sequence	MAVVGVS SVSRLLGRSRPQLGRPMSSGAHGEEGSARMWKT LTFFVALPGVAVSM LNVYLKSHHGEHERPEFIAYPHLRIR TKFPFWGDGNHTLFHNPHVNPLPTGYEDE
Purity	Proprietary Purification
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80 centigrade. Avoid freeze / thaw cycles.
Storage Buffer	pH: 8.00. Constituents: 0.79% Tris HCl, 0.31% Glutathione.
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
Gene ID	1337
mRNA Refseq	NM_004373
Protein Refseq	NP_004364
MIM	602072
UniProt ID	P12074

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