Recombinant Human COX6A1

Cat. No. COX6A1-27583TH **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	Wheat Germ
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.
Molecular Weight	37.730kDa inclusive of tags

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Form	Liquid
Purity	Proprietary Purification
Storage buffer	pH: 8.00Constituents:0.3% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	MAVVGVSSVSRLLGRSRPQLGRPMSSGAHGEEGSARMWKT LTFFVALPGVAVSM LNVYLKSHHGEHERPEFIAYPHLRIR TKPFPWGDGNHTLFHNPHVNPLPTGYEDE
Sequence Similarities	Belongs to the cytochrome c oxidase subunit 6A family.

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

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Uniprot ID	P12074
Chromosome Location	12q24
Pathway	Alzheimers disease, organism-specific biosystem; Alzheimers disease, conserved biosystem; Cardiac muscle contraction, organism-specific biosystem; Cardiac muscle contraction, conserved biosystem; Cytochrome c oxidase, organism-specific biosystem;
Function	cytochrome-c oxidase activity;

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