

Recombinant Full Length Human COX6A2 Protein, C-Flag-tagged

Cat. No. COX6A2-1741HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human COX6A2 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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 electron transfer, and the nuclear-encoded subunits may be involved in the regulation and assembly of the complex. This nuclear gene encodes polypeptide 2 (heart/muscle isoform) of subunit VIa, and polypeptide 2 is present only in striated muscles. Polypeptide 1 (liver isoform) of subunit VIa is encoded by a different gene, and is found in all non-muscle tissues. These two polypeptides share 66% amino acid sequence identity.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	9.4 kDa
AA Sequence	MALPLRPLTRGLASAAKGGHGGAGARTWRLTFLALPSVALCTFNSYLHSGHRPR PEFRPYQHLRIRTKPYPWGDGNHTLFHNSHVNPLPTGYEHPTRTRPLEQKLISEEDL

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Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Pathways	Alzheimer's disease, Cardiac muscle contraction, Huntington's disease, Metabolic pathways, Oxidative phosphorylation, Parkinson's disease
Full Length	Full L.

GENE INFORMATION

Gene Name	COX6A2 cytochrome c oxidase subunit 6A2 [Homo sapiens (human)]
Official Symbol	COX6A2
Synonyms	COX6AH; COXVIAH; MC4DN18; COXVIa-M
Gene ID	1339
mRNA Refseq	NM_005205.4

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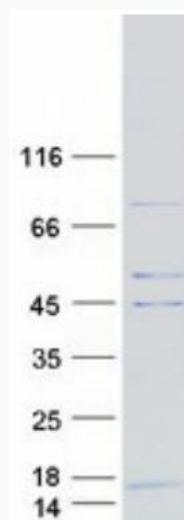
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Protein Refseq [NP_005196.1](#)

MIM [602009](#)

UniProt ID [Q02221](#)



Coomassie blue staining of purified COX6A2 protein.

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