# Recombinant Full Length Human COX6B1 Protein, C-Flag-tagged

**Cat. No.** COX6B1-2012HFL **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | Recombinant Full Length Human COX6B1 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 subunit VIb. Mutations in this gene are associated with severe infantile encephalomyopathy. Three pseudogenes COX6BP-1, COX6BP-2 and COX6BP-3 have been found on chromosomes 7, 17 and 22q13.1-13.2, respectively. |
| **Form** | 25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol. |
| **Molecular Mass** | 10 kDa |
| **AA Sequence** | MAEDMETKIKNYKTAPFDSRFPNQNQTRNCWQNYLDFHRCQKAMTAKGGDISVCE WYQRVYQSLCPTSWV TDWDEQRAEGTFPGKI TRTRPLEQKLISEEDLAANDILDYK |

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| | DDDDKV |
| **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 Families** | Alzheimer's disease, Cardiac muscle contraction, Huntington's disease, Metabolic pathways, Oxidative phosphorylation, Parkinson's disease |
| **Full Length** | Full L. |

## GENE INFORMATION

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| **Gene Name** | COX6B1 cytochrome c oxidase subunit 6B1 [ Homo sapiens (human) ] |
| **Official Symbol** | COX6B1 |
| **Synonyms** | COXG; COX6B; MC4DN7; COXVIb1 |
| **Gene ID** | 1340 |
| **mRNA Refseq** | NM_001863.5 |

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| **Protein Refseq** | NP_001854.1 |
| **MIM** | 124089 |
| **UniProt ID** | P14854 |
| | Coomassie blue staining of purified COX6B1 protein. |

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