

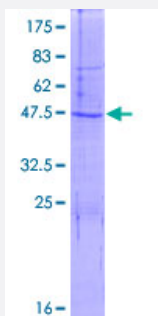
Full-Length

COX4I2 (Human) Recombinant Protein (P02)

Catalog # H00084701-P02

Size 25 ug, 10 ug

Applications



Specification

| | |
|--------------------------------------|---|
| Product Description | Human COX4I2 full-length ORF (NP_115998.2, 1 a.a. - 171 a.a.) recombinant protein with GST-tag at N-terminal. |
| Sequence | MLPRAAWSLVLRKGGGGRRGMHSSEGTTTRGGGKMSPYTNCYAQRYYPMPEEPFCTELNAEEQ ALKEKEKGSWTQLTHAEKVALYRLQFNETFAEMNRRSNEWKTMGCVFFFIGFAALVMWQRVY VFPPKPITLTDERKAQQLQRMLDMKVNVPVQGLASRWDYEKKQWKK |
| Host | Wheat Germ (in vitro) |
| Theoretical MW (kDa) | 46.4 |
| Interspecies Antigen Sequence | Mouse (74); Rat (71) |
| Preparation Method | in vitro wheat germ expression system |
| Purification | Glutathione Sepharose 4 Fast Flow |
| Quality Control Testing | 12.5% SDS-PAGE Stained with Coomassie Blue. |
| Storage Buffer | 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer. |
| Storage Instruction | Store at -80°C. Aliquot to avoid repeated freezing and thawing. |

Note

Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — COX4I2

Entrez GeneID [84701](#)

GeneBank Accession# [NM_032609.2](#)

Protein Accession# [NP_115998.2](#)

Gene Name COX4I2

Gene Alias COX4, COX4-2, COX4B, COX4L2, COXIV-2, dJ857M17.2

Gene Description cytochrome c oxidase subunit IV isoform 2 (lung)

Omim ID [607976](#)

Gene Ontology [Hyperlink](#)

Gene Summary 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 isoform 2 of subunit IV. Isoform 1 of subunit IV is encoded by a different gene, however, the two genes show a similar structural organization. Subunit IV is the largest nuclear encoded subunit which plays a pivotal role in COX regulation. [provided by RefSeq]

Other Designations OTTHUMP00000030533|cytochrome c oxidase subunit IV isoform 2|cytochrome c oxidase subunit IV-like 2

Pathway

- [Cardiac muscle contraction](#)
- [Metabolic pathways](#)
- [Oxidative phosphorylation](#)

Disease

- [Genetic Predisposition to Disease](#)
- [Prostatic Neoplasms](#)