

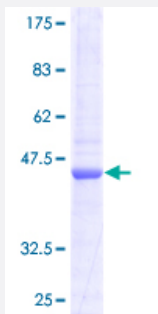
Full-Length

COX4I2 (Human) Recombinant Protein (P01)

Catalog # H00084701-P01

Size 10 ug, 25 ug

Applications



Specification

Product Description	Human COX4I2 full-length ORF (AAH57779, 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)	44.55
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# [BC057779](#)

Protein Accession# [AAH57779](#)

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](#)