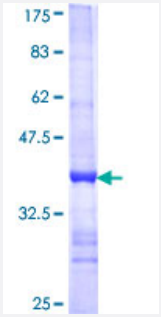
COX4I1 (Human) Recombinant Protein (Q01)

Catalog # H00001327-Q01 Size 25 ug, 10 ug

Applications



Specification

Product Description	Human COX4I1 partial ORF (NP_001852, 1 a.a. - 90 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	MLATRVFSLVGKRAISTSVCVRAHESVVKSEDFSLPAYMDRRDHPLPEVAHVKHLSASQKALKE KEKASWSSLSMDEKVELYRIKFKESF
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	35.64
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 — COX4I1

Entrez GeneID	1327
GeneBank Accession#	NM_001861
Protein Accession#	NP_001852
Gene Name	COX4I1
Gene Alias	COX4, COXIV, MGC72016
Gene Description	cytochrome c oxidase subunit IV isoform 1
Omim ID	123864
Gene Ontology	Hyperlink
Gene Summary	Cytochrome c oxidase (COX) is the terminal enzyme of the mitochondrial respiratory chain. It is a multi-subunit enzyme complex that couples the transfer of electrons from cytochrome c to molecul ar oxygen and contributes to a proton electrochemical gradient across the inner mitochondrial me mbrane. The complex consists of 13 mitochondrial- and nuclear-encoded subunits. The mitochon drially-encoded subunits perform the electron transfer and proton pumping activities. The function s of the nuclear-encoded subunits are unknown but they may play a role in the regulation and asse mbly of the complex. This gene encodes the nuclear-encoded subunit IV isoform 1 of the human m itochondrial respiratory chain enzyme. It is located at the 3' of the NOC4 (neighbor of COX4) gene in a head-to-head orientation, and shares a promoter with it. [provided by RefSeq
Other Designations	-

Pathway

- Cardiac muscle contraction
- Metabolic pathways

- Oxidative phosphorylation