

Full-Length

COX5A (Human) Recombinant Protein (P01)

Catalog # H00009377-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description	Human COX5A full-length ORF (AAH24240, 1 a.a. - 150 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	MLGAALRRCAVAATTRADPRGLLHSARTPGPAVAIQSVRCYSHGSQETDEEFDARWVTYFNKPD IDAWELRKGINLTVTYDMVPEPKIDAALRACRRLNDFASTVRILEVVKDKAGPHKEIPYVIQELRPT LNELGISTPEELGLDKV
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	42.24
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 — COX5A

Entrez GeneID [9377](#)

GeneBank Accession# [BC024240](#)

Protein Accession# [AAH24240](#)

Gene Name COX5A

Gene Alias COX, COX-VA, VA

Gene Description cytochrome c oxidase subunit Va

Omim ID [603773](#)

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 molecular oxygen and contributes to a proton electrochemical gradient across the inner mitochondrial membrane. The complex consists of 13 mitochondrial- and nuclear-encoded subunits. The mitochondrially-encoded subunits perform the electron transfer of proton pumping activities. The functions of the nuclear-encoded subunits are unknown but they may play a role in the regulation and assembly of the complex. This gene encodes the nuclear-encoded subunit Va of the human mitochondrial respiratory chain enzyme. A pseudogene COX5AP1 has been found in chromosome 14q22. [provided by RefSeq]

Other Designations cytochrome c oxidase polypeptide, mitochondrial|mitochondrial cytochrome c oxidase subunit Va

Pathway

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