

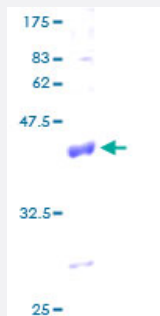
Full-Length

# COX6A1 (Human) Recombinant Protein (P01)

Catalog # H00001337-P01

Size 25 ug, 10 ug

## Applications



## Specification

Product Description	Human COX6A1 full-length ORF ( AAH07723, 1 a.a. - 109 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	MAVVGVS SVSRLLGRSRPQLGRPMSSGAHGEEGSARMWKLTFFVALPGVAVSMLNVYLKSHH GEHERPEFIAYPHLRIRTKPFPWGDGNHTLFHNPHVNPLPTGYEDE
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	37.73
Interspecies Antigen Sequence	Rat (83)
Preparation Method	<a href="#">in vitro wheat germ expression system</a>
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 — COX6A1

Entrez GeneID [1337](#)

GeneBank Accession# [BC007723](#)

Protein Accession# [AAH07723](#)

Gene Name COX6A1

Gene Alias COX6A, COX6AL, MGC104500

Gene Description cytochrome c oxidase subunit VIa polypeptide 1

Omim ID [602072](#)

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 the electron transfer and the nuclear-encoded subunits may function in the regulation and assembly of the complex. This nuclear gene encodes polypeptide 1 (liver isoform) of subunit VIa, and polypeptide 1 is found in all non-muscle tissues. Polypeptide 2 (heart/muscle isoform) of subunit VIa is encoded by a different gene, and is present only in striated muscles. These two polypeptides share 66% amino acid sequence identity. It has been reported that there may be several pseudogenes on chromosomes 1, 6, 7 q21, 7q31-32 and 12. However, only one pseudogene (COX6A1P) on chromosome 1p31.1 has been documented. [provided by RefSeq]

**Other Designations** OTTHUMP00000045456|cytochrome C oxidase subunit VIa homolog

## Pathway

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