

# Recombinant human COA4 protein

Catalog Number: ATGP2716

## PRODUCT INFORMATION

---

### Expression system

E.coli

### Domain

1-87aa

### UniProt No.

Q9NYJ1

### NCBI Accession No.

NP\_057649

### Alternative Names

Cytochrome c oxidase assembly factor 4 homolog mitochondrial, Cytochrome c oxidase assembly factor 4 homolog, mitochondrial, CHCHD8, CMC3, E2IG2

## PRODUCT SPECIFICATION

---

### Molecular Weight

12.5 kDa (110aa) confirmed by MALDI-TOF

### Concentration

0.25mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol, 1mM DTT

### Purity

> 90% by SDS-PAGE

### Tag

His-Tag

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

---

### Description

Cytochrome c oxidase assembly factor 4 homolog, mitochondrial, also known as COA4, is the last enzyme of the mitochondrial respiratory chain, is a very complicated process and requires the assistance of a large number of accessory factors. It is essential for oxidative phosphorylation and comprises multiple complexes, including cytochrome c oxidase, assembled in macromolecular supercomplexes. Defects in COX4 assembly alter cellular respiration and produce severe human encephalomyopathies. Recombinant human COA4 protein, fused to His-

## Recombinant human COA4 protein

Catalog Number: ATGP2716

tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

### Amino acid Sequence

<MGSSHHHHHH SSGLVPRGSH MGS>MSTSVPQ GHTWTQRVKK DDEEDPLDQ LISRSGCAAS HFAVQECMAQ  
HQDWRQCQPQ VQAFKDCMSE QQARRQEELQ RRQEAGAAH

### General References

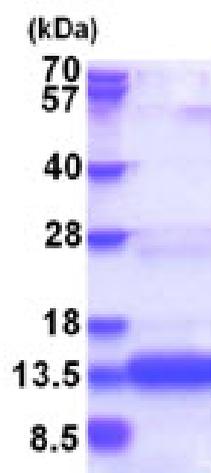
Diaz F., et al. (2012) Hum Mol Genet. 1(23): 5066-77.

Huigsloot M., et al. (2011) Am J Hum Genet. 8(4): 488-93.

## DATA

---

### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)