

# Recombinant human COX5A protein

Catalog Number: ATGP1867

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

42-150aa

### UniProt No.

P20674

### NCBI Accession No.

NP\_004246

### Alternative Names

cytochrome c oxidase subunit Va, cytochrome c oxidase subunit Va, COX, COX-VA, VA

## PRODUCT SPECIFICATION

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### Molecular Weight

14.9 kDa (132aa) confirmed by MALDI-TOF

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.1M NaCl, 10% glycerol, 2mM DTT

### Purity

> 95% 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

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### Description

COX5A, also known as COX, COX-VA and VA, belongs to the cytochrome c oxidase subunit 5A family. Cytochrome c oxidase (COX), the terminal component of the mitochondrial respiratory chain, catalyzes the electron transfer from reduced cytochrome c to oxygen. This component 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 function in the regulation and assembly of the complex. COX5A is the heme A-containing chain of cytochrome c

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oxidase, the terminal oxidase in mitochondrial electron transport. Recombinant human COX5A protein, fused to His-tag at N-terminus, was expressed in *E. coli* and purified by using conventional chromatography techniques.

### Amino acid Sequence

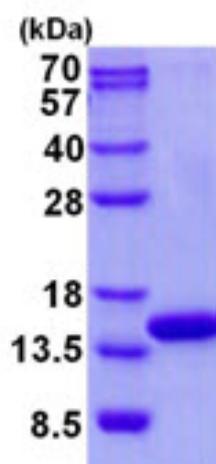
<MGSSHHHHHH SSGLVPRGSH MGS>SHGSQET DEEFDARWVT YFNKPDIDAW ELRKGINTLV TYDMVPEPKI  
IDAALRACRR LNDFASTVRI LEVVKDKAGP HKEIYPYVIQ ELRPTLNELG ISTPEELGLD KV

### General References

Lenka N, et al. (1998). *Prog. Nucleic Acid Res. Mol. Biol.* 61: 309-44.  
Schmidt, T.R., et al. (2002) *Gene* 286: 13-19.

## DATA

### SDS-PAGE



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

15% SDS-PAGE (3ug)