

# Human COX5B Protein (His Tag)

Catalog Number: 15660-H07E



Sino Biological  
Biological Solution Specialist

## General Information

### Gene Name Synonym:

COXVB

### Protein Construction:

A DNA sequence encoding the human COX5B (P10606) (Ala32-His129) was expressed with a polyhistidine tag at the N-terminus.

**Source:** Human

**Expression Host:** E. coli

## QC Testing

**Purity:** > 95 % as determined by SDS-PAGE

### Endotoxin:

Please contact us for more information.

### Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

**Predicted N terminal:** His

### Molecular Mass:

The recombinant human COX5B consists of 113 amino acids and predicts a molecular mass of 12.5 KDa. It migrates as an approximately 15 KDa band in SDS-PAGE under reducing conditions.

### Formulation:

Lyophilized from sterile PBS, 10% Glycerol, pH 7.4.

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

## Usage Guide

### Storage:

Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

**Avoid repeated freeze-thaw cycles.**

### Reconstitution:

Detailed reconstitution instructions are sent along with the products.

## SDS-PAGE:



## Protein Description

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 and 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 Vb of the human mitochondrial respiratory chain enzyme.

## References

1.Romero N. et al., 1990, Histochemistry. 94 (2): 211-5. 2.Lomax MI. et al., 1991, Genomics. 10 (1): 1-9. 3.Beauchemin A M. et al., 2001, Brain Res Bull. 56 (3-4): 285-97.

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