

## 32-3581: COX5B Recombinant Protein

**Alternative Name :** Cytochrome c oxidase subunit 5B,mitochondrial precursor,COXVB,COX5B,Mitochondrial,Cytochrome c oxidase polypeptide Vb.

### Description

Source : Escherichia Coli. COX5B Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 121 amino acids (32-129a.a) and having a molecular mass of 13kDa. COX5B is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques. Cytochrome c oxidase subunit VB (COX5B) is the terminal enzyme of the mitochondrial respiratory chain. COX5B is a multi-subunit enzyme complex which couples the transfer of electrons from cytochrome c to molecular oxygen and contributes to a proton electrochemical gradient across the inner mitochondrial membrane. There are two isoforms of COX5:COX5a and COX5b. Transcription of COX5A (the aerobic isoform) is up-regulated as the rate of cellular respiration increases, when oxygen levels within the cell are high. However, when oxygen levels are low, COX5B (the hypoxic isoform) transcription increases and functions to maximize the turnover rate of the COX apoenzyme.

### Product Info

**Amount :** 10 µg  
**Purification :** Greater than 95.0% as determined by SDS-PAGE.  
**Content :** COX5B protein solution (0.5mg/ml) containing 20mM Tris-HCl buffer (pH8.0), 0.1M NaCl, 20% glycerol and 1mM DTT.  
**Storage condition :** Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Avoid multiple freeze-thaw cycles.  
**Amino Acid :** MGSSHHHHHH SSGLVPRGSH MGSASGGGVP TDEEQATGLE REIMLAAKKG LDPYNVLAPK GASGTREDPN LVPSISNKRI VGCICEEDNT SVVWFVLHKG EAQRCPRCGA HYKLVPQQLA H.