9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

COX5B Human

Cytochrome C Oxidase Subunit Vb Human Recombinant
RCP0511

Product Overview

Name	COX5B Human
Description	
Cytochrome C Oxidase Subunit Vb Human Recombinant	
Accession (Primary)	P10606
Synonyms	
Cytochrome c oxidase subunit 5B, mitochondrial precursor, COXVB, COX5B, Mitochondrial, Cytochrome c oxidase polypeptide Vb.	
Introduction	
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.	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile filtered colorless solution.	
Formulation	
COX5B protein solution (0.5mg/ml) containing 20mM Tris-HCl buffer (pH8.0), 0.1M NaCl, 20% glycerol and 1mM DTT.	
Stability	
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.	
Purity	
Greater than 95.0% as determined by SDS-PAGE.	
Amino acid sequence	
MGSSHHHHHH SSGLVPRGSH MGS ASGGGVP TDEEQATGLE REIMLAAKKG LDPYNVLAPK GASGTREDPN LVPSISNKRI VGCICEEDNT SVVWFWLHKG EAQRCPRCGA HYKLVPQQLA H.	

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Precautions

COX5B Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P10606)