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## Product Data Sheet

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Product Name: COX5A Human  
 Cat. No.: GP23206  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Cytochrome c oxidase subunit 5A; mitochondrial; Cytochrome c oxidase polypeptide Va; COX5A; VA; COX; COX-VA.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSSHGSQET DEEFDARWVT YFNKPDIDAW ELRKGINTLV TYDMVPEPKI IDAALRACRR LNDFASTVRI LEVVKDKAGP HKEIYPYVIQ ELRPTLNELG ISTPEELGLD KV.		
Formulation	COX5A protein solution (1mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 0.1M NaCl, 10% glycerol and 2mM DTT.		

### Introduction

Cytochrome C Oxidase Subunit Va (COX5A) is a member of the cytochrome c oxidase subunit 5A family. COX (Cytochrome C Oxidase), which is the terminal component of the mitochondrial respiratory chain, catalyzes the electron transfer from reduced Cytochrome C to oxygen. The COX component is a heteromeric complex comprised of three catalytic subunits encoded by mitochondrial genes and multiple structural subunits encoded by nuclear genes. The mitochondrially-encoded subunits serve in electron transfer, and the nuclear-encoded subunits act in the regulation and assembly of the complex. COX5A is the heme A-containing chain of Cytochrome C Oxidase, which is the terminal oxidase in mitochondrial electron transport.

### 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.

### Background

COX5A Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide

**Caution: Product has not been fully validated for medical applications. For research use only.**

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chain containing 132 amino acids (42-150 a.a) and having a molecular mass of 14.9kDa. COX5A is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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