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## Product Data Sheet

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Product Name: CYB5A Human, Sf9  
 Cat. No.: GP23282  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Sf9, Baculovirus cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Cytochrome b5 isoform 1; CYB5A; CYB5; MCB5; Microsomal cytochrome b5 type A.		
Amino Acid Sequence	ADPMAEQSDE AVKYYTLEEI QKHNHSKSTW LILHHKVYDL TKFLEEHPGG EEVLREQAGG DATENFEDVG HSTDAREMSK TFIIGELHPDDRPKLNKPPE TLITTIDSSS SHHHHHH.		
Formulation	CYB5A protein solution (1mg/ml) contains phosphate buffered saline (pH7.4) and 10% glycerol.		

### Introduction

Cytochrome b5 isoform 1 or CYB5A, is part of the cytochrome b5 family which is bound to the cell membrane. CYB5A has a key role in the stearyl-CoA-desaturase activity as it reduces ferric hemoglobin to ferrous hemoglobin. Cytochrome b5 isoform 1 performs as an electron carrier for numerous oxygenases that are imbedded in the cell membrane.

### 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

CYB5A produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 117 amino acids (1-108a.a.) and having a molecular mass of 13.3kDa. (Molecular size on SDS-PAGE will appear at approximately 18-28kDa). CYB5A is expressed with a 9 amino acid His tag at C-Terminus and purified by proprietary chromatographic techniques.

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

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