

Cytochrome B5A, human recombinant protein

Cytochrome b5, Microsomal cytochrome b5 type A, MCB5, CYB5A, CYB5, Cytochrome B5
Catalog # PBV11416r

Specification

Cytochrome B5A, human recombinant protein - Product info

Primary Accession [P00167](#)
Concentration **1**
Calculated MW **15 kDa KDa**

Cytochrome B5A, human recombinant protein - Additional Info

Gene ID **1528**
Gene Symbol **CYB5A**
Other Names
Cytochrome b5, Microsomal cytochrome b5 type A, MCB5, CYB5A, CYB5, Cytochrome B5

Gene Source **Human**
Source **E. coli**
Assay&Purity **SDS-PAGE; ≥95%**
Assay2&Purity2 **N/A;**
Recombinant **Yes**
Sequence **MGSSHHHHHH SGLVPRGSH
MGSHMAEQSD EAVKYYTLEE IQKHNHKSST
WLILHHKVYD LTKFLEEHPG GEEVLREQAG
GDATENFEDV GHSTDAREMS KTFIIGELHP
DDRPKLNKPP ETLITTIDSS SS**

Target/Specificity

Cytochrome B5A

Application Notes

In 20 mM Tris-HCl buffer (pH 8.0), 20% glycerol, 0.1 M NaCl and 1 mM DTT

Format

Liquid

Storage

-20°C; Sterile filtered, 1 mg/ml solution containing 20 mM Tris-HCl buffer (pH 8.0), 20% glycerol, 0.1 M NaCl and 1 mM DTT

Cytochrome B5A, human recombinant protein - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)

- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Cytochrome B5A, human recombinant protein - Images

Cytochrome B5A, human recombinant protein - Background

Cytochrome b5a (CYB5A) is a membrane-bound hemoprotein which functions as an electron carrier for several membrane bound oxygenases like cytochrome P450 enzymes. Defects in the CYB5A gene (METHB-CYB5A) cause methemoglobinemia also known as CYB5A-related methemoglobinemia (a hematologic disease characterized by the presence of excessive amounts of methemoglobin in blood cells, resulting in decreased oxygen carrying capacity of blood, cyanosis and hypoxia). BioVision's human recombinant CYB5A produced in E.Coli is a single, non-glycosylated polypeptide chain containing 132 amino acids (1-108 a.a of Uniprot Accession# P00167) and having a molecular mass of 14.9kDa. CYB5A is fused to a 24 amino acid long His-tag at the N-terminus & purified by proprietary chromatographic techniques.

Cytochrome B5A, human recombinant protein - References

Yoo M., et al. *Biochem. Biophys. Res. Commun.* 156:576-580(1988).
Giordano S.J., et al. *Biochem. Biophys. Res. Commun.* 178:38-44(1991).
Li X.R., et al. *Biochem. Biophys. Res. Commun.* 209:894-900(1995).
Melton D., et al. Submitted (DEC-2002) to the EMBL/GenBank/DDBJ databases.
Ebert L., et al. Submitted (JUN-2004) to the EMBL/GenBank/DDBJ databases.