

Cytochrome B5 Type A, human recombinant

CATALOG #: 7871-5 5 µg
7871-20 20 µg
7871-1000 1 mg

ALTERNATIVE NAMES: Cytochrome b5, Microsomal cytochrome b5 type A, MCB5, CYB5A, CYB5, Cytochrome B5

SOURCE: *E. Coli*

FORM: Liquid

FORMULATION: 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

MOL. WT.: ~15 kDa

PURITY: >95% by SDS-PAGE

STORAGE: Stable for at least 6 months - 1 year as supplied. Store at 4°C if the entire vial will be used within 2-4 weeks. Aliquot and store at -20°C for longer shelf-life. For long-term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid repeated freezing and thawing cycles.

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.

SEQUENCE: MGSSHHHHHH SGLVPRGSH MGSMAEQSD EAVKYITLEE
IQKHNHKSST WLILHHKVYD LTKFLEEHPG GEEVLREQAG GDATENFEDV
GHSTDAREMS KTFIIGELHP DDRPKLNKPP ETLITTIDSS SS.

RELATED PRODUCTS:

- Cytochrome c (Cat. No. 2120)
- Cytochrome P450 Antibody (Cat. No. 3084R-100)
- Cytochrome P450 Blocking Peptide (Cat. No. 3084RBP-50)
- Cytochrome P450 2D6, human recombinant (Cat. No. 7870-100)

For Research Use Only! Not to be used in humans.