



# Recombinant Protein Technical Manual

## Recombinant Human Cytochrome b5/CYB5A Protein (His Tag) RPES1919

### Product Data:

**Product SKU:** RPES1919

**Size:** 10µg

**Species:** Human

**Expression host:** E. coli

**Uniprot:** P00167

### Protein Information:

**Molecular Mass:** 17.5 kDa

**AP Molecular Mass:** 17 kDa

**Tag:** N-6His

**Bio-activity:**

**Purity:** > 90 % as determined by reducing SDS-PAGE.

**Endotoxin:** < 1.0 EU per µg as determined by the LAL method.

**Storage:** Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

**Shipping:** This product is provided as lyophilized powder which is shipped with ice packs.

**Formulation:** Lyophilized from a 0.2 µm filtered solution of 20mM PB, 150mM NaCl, 0.1mM EDTA, pH 7.25.

**Reconstitution:** Please refer to the printed manual for detailed information.

**Application:**

**Synonyms:** Cytochrome b5; Microsomal Cytochrome b5 Type A; MCB5; CYB5A; CYB5

## Immunogen Information:

**Sequence:** Met 1-Asp134

## Background:

Cytochrome b5 (CYB5A) is a membrane bound hemoprotein which function as an electron carrier for several membrane bound oxygenases. CYB5A contains one cytochrome b5 heme-binding domain and has two isoforms produced by alternative splicing. Isoform 1 is a single-pass membrane protein. Isoform 2 is located in cytoplasm. The defects in CYB5A can result in type IV hereditary methemoglobinemia.