

Recombinant Human Cytochrome b5/CYB5A Protein (His Tag)

Catalog No. PKSH032334

Note: Centrifuge before opening to ensure complete recovery of vial contents.

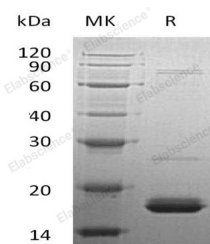
Description

Synonyms	Cytochrome b5;Microsomal Cytochrome b5 Type A;MCB5;CYB5A;CYB5
Species	Human
Expression Host	E.coli
Sequence	Met 1-Asp134
Accession	P00167
Calculated Molecular Weight	17.5 kDa
Observed molecular weight	17 kDa
Tag	N-His
Bioactivity	Not validated for activity

Properties

Purity	> 90 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method.
Storage	Generally, 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. Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

Data



> 90 % as determined by reducing SDS-PAGE.

Background

Cytochrome b5 (CYB5A) is a membrane bound hemoprotein which function as an electron carrier for several membrane

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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.