

Cytochrome b5/CYB5A Protein, Human (His)

Cat. No.:	HY-P7858
Synonyms:	rHuCytochrome b5/CYB5A, His; Cytochrome b5; Microsomal Cytochrome b5 Type A; MCB5; CYB5A; CYB5
Species:	Human
Source:	E. coli
Accession:	P00167 (M1-D134)
Gene ID:	1528
Molecular Weight:	Approximately 17.0 kDa

PROPERTIES

AA Sequence	<p> M A E Q S D E A V K Y Y T L E E I Q K H N H S K S T W L I L H H K V Y D L T K F L E E H P G G E E V L R E Q A G G D A T E N F E D V G H S T D A R E M S K T F I I G E L H P D D R P K L N K P P E T L I T T I D S S S S W W T N W V I P A I S A V A V A L M Y R L Y M A E D </p>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of 20 mM PB, 150 mM NaCl, 0.1 mM EDTA, pH 7.25.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	<p>Cytochrome b5 (CYB5A) is a membrane-bound hemoprotein that serves as an electron carrier for various membrane-bound oxygenases. Positioned within cellular membranes, this protein plays a crucial role in facilitating electron transfer processes, contributing to the activity of oxygenase enzymes. Its function as an electron carrier underscores its significance in cellular redox reactions and metabolic pathways where oxygenases are involved.</p>
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Caution: Product has not been fully validated for medical applications. For research use only.

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