

## Recombinant Human CYB5A protein, His-tagged

Cat. No. CYB5A-22H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human CYB5A(Met1-Asp134) fused with His tag at N-terminal was expressed in E. coli.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	1-134 a.a.
<b>Description</b>	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.
<b>Form</b>	Lyophilized from a 0.2 µm filtered solution of 20mM PB, 150mM NaCl, 0.1mM EDTA, pH 7.25.
<b>AA Sequence</b>	MGSSHHHHHHSSGLVPRGSHMAEQSDEAVKYYTLEEIQKHNSKSTWLILHHKQYD LTKFLEEHP GGEEVLREQAGGDATENFEDVGHSTDAREMSKTFIIGELHPDDRPKL NKPPETLITTIDSSSSWW TNWVIPAISAVAVALMYRLYMAED
<b>Endotoxin</b>	Less than 0.1 ng/g (1 IEU/g) as determined by LAL test.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

<b>Purity</b>	Greater than 95% as determined by reducing SDS-PAGE.
<b>Storage</b>	Lyophilized protein should be stored at < -20 centigrade, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7 centigrade for 2-7 days. Aliquots of reconstituted samples are stable at < -20 centigrade for 3 months.
<b>Reconstitution</b>	Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 µg/ml. Dissolve the lyophilized protein in ddH <sub>2</sub> O. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

## GENE INFORMATION

<b>Gene Name</b>	CYB5A cytochrome b5 type A (microsomal) [ Homo sapiens ]
<b>Official Symbol</b>	CYB5A
<b>Synonyms</b>	CYB5A; cytochrome b5 type A (microsomal); CYB5, cytochrome b 5 , cytochrome b5 (microsomal); cytochrome b5; type 1 cyt-b5; CYB5; MCB5;
<b>Gene ID</b>	1528
<b>mRNA Refseq</b>	NM_001190807
<b>Protein Refseq</b>	NP_001177736
<b>MIM</b>	613218
<b>UniProt ID</b>	P00167

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<b>Chromosome Location</b>	18q23
<b>Pathway</b>	Metabolism, organism-specific biosystem; Metabolism of vitamins and cofactors, organism-specific biosystem; Metabolism of water-soluble vitamins and cofactors, organism-specific biosystem; Vitamin C (ascorbate) metabolism, organism-specific biosystem; gamma-linolenate biosynthesis II (animals), organism-specific biosystem; gamma-linolenate biosynthesis II (animals), conserved biosystem;
<b>Function</b>	aldo-keto reductase (NADP) activity; cytochrome-c oxidase activity; enzyme binding; heme binding; metal ion binding;

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