Recombinant Human CYB5A protein, His-tagged

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

SPECIFICATION

Product Overview	Recombinant Human CYB5A(Met1-Asp134) fused with His tag at N-terminal was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	1-134 a.a.
Description	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 sngle-pass membrane protein. Isoform 2 is located in cytoplasm. The defects in CYB5A can result in type IV hereditary methemoglobinemia.
Form	Lyophilized from a 0.2 μm filtered solution of 20mM PB, 150mM NaCl, 0.1mM EDTA, pH 7.25.
AA Sequence	MGSSHHHHHHSSGLVPRGSHMAEQSDEAVKYYTLEEIQKHNHSKSTWLILHHKVYD LTKFLEEHP GGEEVLREQAGGDATENFEDVGHSTDAREMSKTFIIGELHPDDRPKL NKPPETLITTIDSSSSWW TNWVIPAISAVAVALMYRLYMAED
Endotoxin	Less than 0.1 ng/ɡ (1 IEU/ɡ) as determined by LAL test.

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Purity	Greater than 95% as determined by reducing SDS-PAGE.
Storage	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.
Reconstitution	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 ddH2O. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

GENE INFORMATION

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

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Chromosome Location	18q23
Pathway	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;
Function	aldo-keto reductase (NADP) activity; cytochrome-c oxidase activity; enzyme binding; heme binding; metal ion binding;

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