Recombinant Human CYB5A, His-tagged

Cat. No. CYB5A-27555TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full length human Cytochrome b5 containing an N-terminal His tag.
Species	Human
Source	E.coli
Description	The protein encoded by this gene is a membrane-bound cytochrome that reduces ferric hemoglobin (methemoglobin) to ferrous hemoglobin, which is required for stearyl-CoA-desaturase activity. Defects in this gene are a cause of type IV hereditary methemoglobinemia. Three transcript variants encoding different isoforms have been found for this gene.
Conjugation	HIS
Form	Liquid
Purity	>90% by SDS-PAGE
Storage buffer	Preservative: NoneConstituents: 20 mM phosphate buffer, 0.1mM EDTA, pH 7.25.The product is supplied as a solution containing0.5 - 10 mg protein (BCA)/mL
Storage	Aliquot and store at -80°C. Avoid repeated freeze / thaw cycles.
Sequence Similarities	Belongs to the cytochrome b5 family.Contains 1 cytochrome b5 heme-binding domain.

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Full Length	Full L.

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;
Gene ID	1528
mRNA Refseq	NM_001190807
Protein Refseq	NP_001177736
MIM	613218
Uniprot ID	P00167
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), conserved biosystem;
Function	aldo-keto reductase (NADP) activity; cytochrome-c oxidase activity; enzyme binding; heme binding; metal ion binding;

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