

Recombinant Human CYB5A, His-tagged

Cat. No. CYB5A-27557TH Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human Cytochrome b5 expressed in Saccharomyces cerevisiae; amino acids 1-98 , 11.3kDa.
Species	Human
ProteinLength	1-98 a.a.
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: 30% Glycerol, 0.5% Triton-X-100, 50mM HEPES, 30mM Glutathione, 100mM Sodium chloride, 1mM DTT, pH 7.5
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid repeated freeze / thaw cycles.

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Sequences of amino acids	MAEQSDEAVKYYTLEEIQKHNSKSTWLILHHKVYDLTKF LEEHPGGEEVLREQAG GDATENFEDVGHSTDAREMSKTFI IGEHPDDRPKLNKPPEP
Sequence Similarities	Belongs to the cytochrome b5 family.Contains 1 cytochrome b5 heme-binding domain.
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,

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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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