

## Recombinant Human CYB5A, His-tagged

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

### SPECIFICATION

<b>Product Overview</b>	Recombinant full length Human Cytochrome b5 expressed in <i>Saccharomyces cerevisiae</i> ; amino acids 1-98 , 11.3kDa.
<b>Species</b>	Human
<b>ProteinLength</b>	1-98 a.a.
<b>Description</b>	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.
<b>Conjugation</b>	HIS
<b>Form</b>	Liquid
<b>Purity</b>	>90% by SDS-PAGE
<b>Storage buffer</b>	Preservative: None Constituents: 30% Glycerol, 0.5% Triton-X-100, 50mM HEPES, 30mM Glutathione, 100mM Sodium chloride, 1mM DTT, pH 7.5
<b>Storage</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid repeated freeze / thaw cycles.

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<b>Sequences of amino acids</b>	MAEQSDEAVKYYTLEEIQKHNSKSTWLILHHKVYDLTKF LEEHPGGEEVLREQAG GDATENFEDVGHSTDAREMSKTFI IGEHPDDRPKLNKPPEP
<b>Sequence Similarities</b>	Belongs to the cytochrome b5 family. Contains 1 cytochrome b5 heme-binding domain.
<b>Full Length</b>	Full L.
<b>GENE INFORMATION</b>	
<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;
<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
<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,

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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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