

## Recombinant Human CYB5A Protein, His tagged

Cat. No. CYB5A-30H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	This recombinant human cytochrome b5 protein with Histidine tag was expressed in E. coli and is enzymatically active.
<b>Species</b>	Human
<b>Source</b>	E.coli
<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>Purity</b>	≥ 75% by visual inspection of 5 µg in a Coomassie stained SDS gel.
<b>Storage</b>	Store at -70 centigrade. Avoid Multiple Freeze-Thaw Cycles.
<b>Storage Buffer</b>	10 mM Na/K phosphate, pH 7.25, 0.1 mM EDTA, 0.1 mM DTT, 0.01% CHAPS
<b>Concentration</b>	1.77 mg/mL total protein using the BCA protein assay with BSA as a standard.
<b>Reference</b>	1. Holmans et al. (1994) Arch. Biochem. Biophys. 312: 554-565.

### GENE INFORMATION

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<b>Gene Name</b>	CYB5A cytochrome b5 type A (microsomal) [ Homo sapiens (human) ]
<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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