

Recombinant Human CYB5A Protein, His tagged

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

SPECIFICATION

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

GENE INFORMATION

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Gene Name	CYB5A cytochrome b5 type A (microsomal) [Homo sapiens (human)]
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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