

Recombinant Human CYB5R3 Protein, His-tagged

Cat. No. CYB5R3-1380H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CYB5R3 (27-301aa) Protein is produced by E. coli expression system. This protein is fused with a His tag.
Species	Human
Source	E.coli
ProteinLength	27-301 aa
Description	CYB5R3 is a cytochrome b5 reductasecytochrome b5 reductase, which includes a membrane-bound form in somatic cells (anchored in the endoplasmic reticulum, mitochondrial and other membranes) and a soluble form in erythrocytes. The membrane-bound form exists mainly on the cytoplasmic side of the endoplasmic reticulum and functions in desaturation and elongation of fatty acids, in cholesterol biosynthesis, and in drug metabolism. The erythrocyte form is located in a soluble fraction of circulating erythrocytes and is involved in methemoglobin reduction. The membrane-bound form has both membrane-binding and catalytic domains, while the soluble form has only the catalytic domain. Mutations in this gene cause methemoglobinemias. Recombinant human CYB5R3 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.
Form	Liquid. In 20mM Tris-HCl buffer(pH 8.0) containing 10% glycerol, 1mM DTT, 0.1M NaCl.

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Molecular Mass	34 kDa (300 aa) confirmed by MALDI-TOF
Purity	> 95 % by SDS - PAGE
Notes	For research use only. This product is not intended or approved for human, diagnostics or veterinary use.
Storage	Can be stored at +2 centigrade to +8 centigrade for 1 week. For long term storage, aliquot and store at -20 centigrade to -80 centigrade. Avoid repeated freezing and thawing cycles.
Concentration	1 mg/ml (determined by Bradford)

GENE INFORMATION

Gene Name	CYB5R3 cytochrome b5 reductase 3 [Homo sapiens]
Official Symbol	CYB5R3
Synonyms	CYB5R3; cytochrome b5 reductase 3; DIA1, diaphorase (NADH) (cytochrome b 5 reductase); diaphorase-1; B5R; DIA1;
Gene ID	1727
mRNA Refseq	NM_000398
Protein Refseq	NP_000389
MIM	613213
UniProt ID	P00387

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