

Recombinant Full Length Human CYB5R3 Protein, C-Flag-tagged

Cat. No. CYB5R3-2039HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human CYB5R3 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	This gene encodes cytochrome 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. Alternate splicing results in multiple transcript variants. Mutations in this gene cause methemoglobinemias.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	34.1 kDa
AA Sequence	MGAQLSTLGHMVLPVWFLYSLLMKLFQRSTPAITLESPIKYLRLIDREIISHDTRR FRFALPSPQHI LGLPVGQHIYLSARIDGNLVVRPYTPISSDDDDKGFVDLVIKVYFKDT

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HPKFPAGGKMSQYLESMQIGDTI EFRGPSGLLVYQGKGKFAIRPDKKSNPIIRTVKS
 VGMIAAGGTGITPMLQVIRAIMKDPDDHTVCHLLFAN QTEKDILLRPELEELRNKHSAR
 FKLWYTLDRAPAEWDYGQGFVNEEMIRDHLPPPEEEPLVLMCGPPPMI QYACLPN
 LDHVGHPТЕРCFVF TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome
Protein Pathways	Amino sugar and nucleotide sugar metabolism
Full Length	Full L.

GENE INFORMATION

Gene Name	CYB5R3 cytochrome b5 reductase 3 [Homo sapiens (human)]
Official Symbol	CYB5R3
Synonyms	B5R; DIA1

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Gene ID	1727
mRNA Refseq	NM_000398.7
Protein Refseq	NP_000389.1
MIM	613213
UniProt ID	P00387



Coomassie blue staining of purified CYB5R3 protein.