

Recombinant Human CYB5R3 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. CYB5R3-868H Lot. No. (See product label)

SPECIFICATION

Product Overview CYB5R3 MS Standard C13 and N15-labeled recombinant protein (NP_015565) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.

Species Human

Source HEK293

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.

Molecular Mass 31.4 kDa

AA Sequence MKLFQRSTPAITLESPIKYLRLIDREIISHDTRRRFRFALPSPQHILGLPVGQHIYLSA
RIDGNLVRPYTPISSDDDKGFVDLVIKVYFKDTHPKFPAGGKMSQYLESMQIGDTIE
FRGPSGLLVYQGKGKFAIRPDKKSNPIIRTVKSVMGIAGGTGITPMLQVIRAIMKDPD

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DHTVCHLLFANQTEKDILLRPELEELRNKHSARFKLWYTLDRAPEAWDYGQGFVNE
EMIRDHLPPEEEPLVLMCGPPPMIQYACLPLNDHVGHPTRCFCVFTRTRPLEQKLI
SEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name CYB5R3 cytochrome b5 reductase 3 [Homo sapiens (human)]

Official Symbol CYB5R3

Synonyms CYB5R3; cytochrome b5 reductase 3; DIA1, diaphorase (NADH) (cytochrome b 5 reductase); NADH-cytochrome b5 reductase 3; diaphorase-1; NADH-cytochrome b5 reductase 3 soluble form; NADH-cytochrome b5 reductase 3 membrane-bound form; B5R; DIA1;

Gene ID 1727

mRNA Refseq NM_007326

Protein Refseq NP_015565

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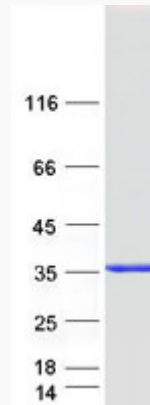
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MIM 613213

UniProt ID P00387

SDS-PAGE



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