

Product datasheet for TP317552

CYB5R3 (NM_007326) Human Recombinant Protein

Product data:

| | |
|---------------------------------------|----------------------------------------------------------------------------------------------|
| Product Type: | Recombinant Proteins |
| Description: | Recombinant protein of human cytochrome b5 reductase 3 (CYB5R3), transcript variant 2, 20 µg |
| Species: | Human |
| Expression Host: | HEK293T |
| Expression cDNA Clone or AA Sequence: | >RC217552 representing NM_007326 Red =Cloning site Green =Tags(s) |

MKLFQRSTPAITLESPPDIKYPLRLIDREIISHDTRRRFRFALPSPQHILGLPVGQHIYLSARIDGNLVVRP
YTPISSDDDKGFVDLVIKVYFKDTHPKFPAGGKMSQYLESMQIGDTIEFRGPSGLLVYQGGKGFAPRDK
KSNPIIRTVKSVGMIAGGTGITPMLQVIRAIMKDPDDHTVCHLLFANQTEKDILLRPELEELRNKHSARF
KLWYTLDRAPEAWDYGGGFVNEEMIRDHLPPPEEPLVLMCGPPPMIQYACLPLNDHVGHPTECFVF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

| | |
|----------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| Tag: | C-Myc/DDK |
| Predicted MW: | 31.4 kDa |
| Concentration: | >0.05 µg/µL as determined by microplate BCA method |
| Purity: | > 80% as determined by SDS-PAGE and Coomassie blue staining |
| Buffer: | 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol |
| Preparation: | Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps. |
| Note: | For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process. |
| Storage: | Store at -80°C. |
| Stability: | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles. |
| RefSeq: | <u>NP_015565</u> |
| Locus ID: | 1727 |



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UniProt ID: [P00387](#)

RefSeq Size: 2000

Cytogenetics: 22q13.2

RefSeq ORF: 834

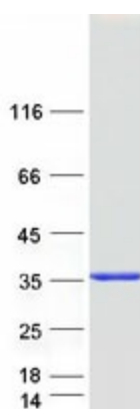
Synonyms: B5R; DIA1

Summary: 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. [provided by RefSeq, Jan 2010]

Protein Families: Druggable Genome

Protein Pathways: Amino sugar and nucleotide sugar metabolism

Product images:



Coomassie blue staining of purified CYB5R3 protein (Cat# TP317552). The protein was produced from HEK293T cells transfected with CYB5R3 cDNA clone (Cat# [RC217552]) using MegaTran 2.0 (Cat# [TT210002]).