

## Product datasheet for TP301592M

### CYB5R3 (NM\_000398) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human cytochrome b5 reductase 3 (CYB5R3), transcript variant 1, 100 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC201592 protein sequence Red=Cloning site Green=Tags(s)

MGAQLSTLGHMVLFPVWFLYSLLMKLFQRSTPAITLESPIKYLRLIDREIISHDTRRRFRFALPSPQHI  
LGLPVGQHIYLSARIDGNLVVRPYTPISSDDDKGFVDLVIKVYFKDTHPKFPAGGKMSQYLESMQIGDTI  
EFRGPSGLLVYQKGKFAIRPDKSNPIIRTVKSVGMIAGGTGITPMLQVIRAIMKDPDDHTVCHLLFAN  
QTEKDILLRPELEELRNKHSARFKLWYTLDRAPEAWDYGQGFVNEEMIRDHLPPEEEPLVLMCGPPPMI  
QYACLPNLDHVGHPTECFVF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Predicted MW:	34.1 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:	<a href="#">NP_000389</a>
Locus ID:	1727



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UniProt ID: [P00387](#)

RefSeq Size: 2923

Cytogenetics: 22q13.2

RefSeq ORF: 903

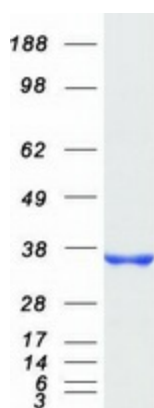
Synonyms: B5R; DIA1

**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# [TP301592]). The protein was produced from HEK293T cells transfected with CYB5R3 cDNA clone (Cat# [RC201592]) using MegaTran 2.0 (Cat# [TT210002]).