

Product datasheet for PH301592

CYB5R3 (NM_000398) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	CYB5R3 MS Standard C13 and N15-labeled recombinant protein (NP_000389)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC201592
Predicted MW:	34.2 kDa
Protein Sequence:	>RC201592 protein sequence Red=Cloning site Green=Tags(s)

MGAQLSTLGHMVLFPVWFLYSLLMKLFQRSTPAITLESPIKYPLRLIDREIISHDTRRRFRFALPSPQHI
LGLPVGQHIYLSARIDGNLVVRPYTPISDDDKGFVDLVIKVYFKDTHPKFPAGGKMSQYLESMQIGDTI
EFRGPSGLLVYQKGKFAIRPDKKNPIIRTVKSVMGIAGGTGITPMLQVIRAIMKDPDDHTVCHLLFAN
QTEKDILLRPELEELRNKHSARFKLWYTLDRAPEAWDYGGFVNEEMIRDHLPPPEEEPLVLMCGPPPMI
QYACLPNLDHVGHPTECFVF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u>NP_000389</u>
RefSeq Size:	2923
RefSeq ORF:	903
Synonyms:	B5R; DIA1
Locus ID:	1727



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UniProt ID: [P00387](#)

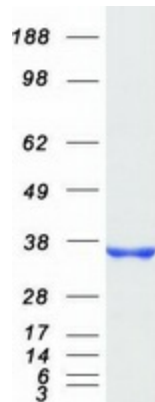
Cytogenetics: 22q13.2

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]).