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Product datasheet for PH302378

Cytochrome b5 (CYB5A) (NM_148923) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	CYB5A MS Standard C13 and N15-labeled recombinant protein (NP_683725)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC202378
Predicted MW:	15.3 kDa
Protein Sequence:	>RC202378 protein sequence Red=Cloning site Green=Tags(s) MAEQSDEAVKYYTLEEIQKHNHSKSTWLILHHKVYDLTKFLEEHPGGEEVLREQAGGDATENFEDVGHST DAREMSKTFIIGELHPDDRPKLNKPPETLITTIDSSSSWWTNWVIPAISAVAVALMYRLYMAED 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- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-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:	NP_683725
RefSeq Size:	850
RefSeq ORF:	402
Synonyms:	CYB5; MCB5; METAG
Locus ID:	1528
UniProt ID:	P00167, A0A384ME44
Cytogenetics:	18q22.3

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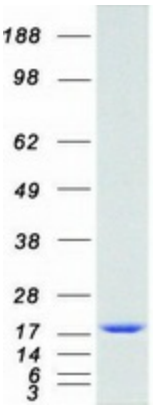
Summary: The protein encoded by this gene is a membrane-bound cytochrome that reduces ferric hemoglobin (methemoglobin) to ferrous hemoglobin, which is required for stearyl-CoA-desaturase activity. Defects in this gene are a cause of type IV hereditary methemoglobinemia. Three transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jun 2010]

Protein Families: Transmembrane

Product images:



Coomassie blue staining of purified CYB5A protein (Cat# [TP302378]). The protein was produced from HEK293T cells transfected with CYB5A cDNA clone (Cat# [RC202378]) using MegaTran 2.0 (Cat# [TT210002]).