

Product datasheet for **PH305837**

MRPS16 (NM_016065) Human Mass Spec Standard

Product data:

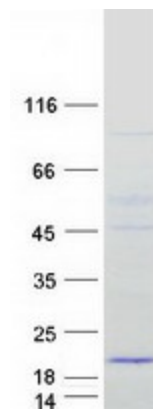
Product Type:	Mass Spec Standards
Description:	MRPS16 MS Standard C13 and N15-labeled recombinant protein (NP_057149)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC205837
Predicted MW:	15.3 kDa
Protein Sequence:	>RC205837 protein sequence Red =Cloning site Green =Tags(s) MVHLTTLCKAYRGGHLTIRLALGGCTNRPFYRIVAAHNKCPRDGRFVEQLGSYDPLPNSHGEKLVALLNLDRIRHWIGCGAHLKPMKLLGLAGFFPLHPMMITNAERLRRKRAREVLLASQKTDAAEATDTEATET 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_057149
RefSeq Size:	2651
RefSeq ORF:	411
Synonyms:	CGI-132; COXPD2; MRP-S16; RPMS16
Locus ID:	51021
UniProt ID:	Q9Y3D3
Cytogenetics:	10q22.2



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Summary:

Mammalian mitochondrial ribosomal proteins are encoded by nuclear genes and help in protein synthesis within the mitochondrion. Mitochondrial ribosomes (mitoribosomes) consist of a small 28S subunit and a large 39S subunit. They have an estimated 75% protein to rRNA composition compared to prokaryotic ribosomes, where this ratio is reversed. Another difference between mammalian mitoribosomes and prokaryotic ribosomes is that the latter contain a 5S rRNA. Among different species, the proteins comprising the mitoribosome differ greatly in sequence, and sometimes in biochemical properties, which prevents easy recognition by sequence homology. This gene encodes a 28S subunit protein that belongs to the ribosomal protein S16P family. The encoded protein is one of the most highly conserved ribosomal proteins between mammalian and yeast mitochondria. Three pseudogenes (located at 8q21.3, 20q13.32, 22q12-q13.1) for this gene have been described. [provided by RefSeq, Jul 2008]

Product images:

Coomassie blue staining of purified MRPS16 protein (Cat# [TP305837]). The protein was produced from HEK293T cells transfected with MRPS16 cDNA clone (Cat# [RC205837]) using MegaTran 2.0 (Cat# [TT210002]).