

Product datasheet for PH308911

MRPS17 (NM_015969) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	MRPS17 MS Standard C13 and N15-labeled recombinant protein (NP_057053)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC208911
Predicted MW:	14.5 kDa
Protein Sequence:	>RC208911 protein sequence Red=Cloning site Green=Tags(s) MSVVRSSVHARWIVGKVIQTKMVKAKVVRVTRLVLDPYLLKYFNKRKTYFAHDALQQCTVGDIVLLRALP VPRAKHVKHELAEIVFKVGVKVIDPVTGKPCAGTTYLESPLSSETTQLSKNLEELNISSAQ 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_057053
RefSeq Size:	600
RefSeq ORF:	390
Synonyms:	HSPC011; MRP-S17; RPMS17; S17mt
Locus ID:	51373
UniProt ID:	Q9Y2R5
Cytogenetics:	7p11.2



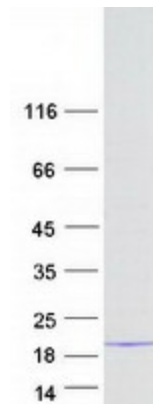
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Summary:

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 S17P family. The encoded protein is moderately conserved between human mitochondrial and prokaryotic ribosomal proteins. Pseudogenes corresponding to this gene are found on chromosomes 1p, 3p, 6q, 14p, 18q, and Xq. [provided by RefSeq, Jul 2008]

Protein Families:

Druggable Genome

Product images:

Coomassie blue staining of purified MRPS17 protein (Cat# [TP308911]). The protein was produced from HEK293T cells transfected with MRPS17 cDNA clone (Cat# [RC208911]) using MegaTran 2.0 (Cat# [TT210002]).