

Product datasheet for PH301353

MRPS25 (NM_022497) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	MRPS25 MS Standard C13 and N15-labeled recombinant protein (NP_071942)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC201353
Predicted MW:	20.1 kDa
Protein Sequence:	>RC201353 protein sequence Red =Cloning site Green =Tags(s) MPMKGRFPIRRRLQYLSQGNVVKDSVKVMTVNYNTHGELGEGARKFVFFNIPQIQYKPNPWQIMMFKNM TPSPFLRFYLDSEQLVDVETKSNKEIMEHIRKILGKNEETLREEEEEKKQLSHPANFGPRKYCLRECI CEVEGQVPCPSLVPLPKEMRGKYKAALKADAQD TR TRPLEQKLISEEDLAANDILDYKDDDDKV
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:	NP_071942
RefSeq Size:	4574
RefSeq ORF:	519
Synonyms:	COXPD50; MRP-S25; RPMS25
Locus ID:	64432
UniProt ID:	P82663

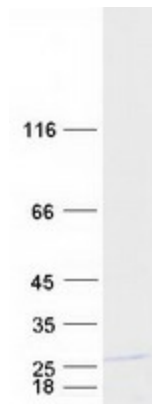


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Cytogenetics: 3p25.1

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. A pseudogene corresponding to this gene is found on chromosome 4. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Feb 2016]

Product images:



Coomassie blue staining of purified MRPS25 protein (Cat# [TP301353]). The protein was produced from HEK293T cells transfected with MRPS25 cDNA clone (Cat# [RC201353]) using MegaTran 2.0 (Cat# [TT210002]).