

Product datasheet for PH300031

MRPS7 (NM_015971) Human Mass Spec Standard

Product data:

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| Product Type: | Mass Spec Standards |
| Description: | MRPS7 MS Standard C13 and N15-labeled recombinant protein (NP_057055) |
| Species: | Human |
| Expression Host: | HEK293 |
| Expression cDNA Clone or AA Sequence: | RC200031 |
| Predicted MW: | 28.2 kDa |
| Protein Sequence: | >RC200031 protein sequence Red=Cloning site Green=Tags(s) MVAPAVKVARGW SGLALGVRAVLQLPGLTQVRWSRYSPEFKDPLIDKEYRKPVEELTEEEKYVRELKK TQLIKAAPAGKTSSVFEDPVISKFTNMMIIGGNKVLARSLMIQTLEAVKRKQFEKYHAASAEEQATIERN PYTIFHQALKNCEPMIGLVPILKGGRFYQVPVPLPDRRRRFLAMKWMITECRDKKHQRTLMPKLSHKLL EAFHNQGPVIKRRKDLHKMAEANRALAHYRWW TRTRPLEQKLI SEEDLAANDILDYKDDDDKV |
| 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_057055 |
| RefSeq Size: | 1432 |
| RefSeq ORF: | 726 |
| Synonyms: | bMRP27a; COXPD34; MRP-S; MRP-S7; RP-S7; RPMS7; S7mt |
| Locus ID: | 51081 |
| UniProt ID: | Q9Y2R9 , A0A024R8L0 |



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Cytogenetics: 17q25.1

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. In the prokaryotic ribosome, the comparable protein is thought to play an essential role in organizing the 3' domain of the 16 S rRNA in the vicinity of the P- and A-sites. Pseudogenes corresponding to this gene are found on chromosomes 8p and 12p. [provided by RefSeq, Jul 2008]

Product images:



Coomassie blue staining of purified MRPS7 protein (Cat# [TP300031]). The protein was produced from HEK293T cells transfected with MRPS7 cDNA clone (Cat# [RC200031]) using MegaTran 2.0 (Cat# [TT210002]).