

Product datasheet for PH301832

MRPL12 (NM_002949) Human Mass Spec Standard

Product data:

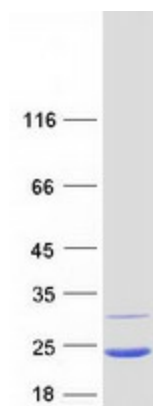
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|---------------------------------------|--|
| Product Type: | Mass Spec Standards |
| Description: | MRPL12 MS Standard C13 and N15-labeled recombinant protein (NP_002940) |
| Species: | Human |
| Expression Host: | HEK293 |
| Expression cDNA Clone or AA Sequence: | RC201832 |
| Predicted MW: | 21.3 kDa |
| Protein Sequence: | <p>>RC201832 protein sequence</p> <p>Red=Cloning site Green=Tags(s)</p> <p>MLPAAARPLWGPCLGLRAAAFRLARRQVPCVCAVRHMRSSGHQRCEALAGAPLDNAPKEYPPKIQQLVQD IASLTLLLEISDLNELLKKTLLKIQDVGLVPMGGVMGAVPAAAAQEAVEEDIPIAKERTHTFTVRLTEAKPV DKVKLLIKEIKNYIQGINLVQAKKLVESLPQEIKANVAKAEAEKIKAALEAVGGTVVLE</p> <p>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</p> |
| 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_002940 |
| RefSeq Size: | 1032 |
| RefSeq ORF: | 594 |
| Synonyms: | 5c5-2; L12mt; MRP-L31/34; MRPL7; MRPL7/L12; RPML12 |
| Locus ID: | 6182 |
| UniProt ID: | P52815 |


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Cytogenetics: 17q25.3

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 39S subunit protein which forms homodimers. In prokaryotic ribosomes, two L7/L12 dimers and one L10 protein form the L8 protein complex. [provided by RefSeq, Jul 2008]

Product images:



Coomassie blue staining of purified MRPL12 protein (Cat# [TP301832]). The protein was produced from HEK293T cells transfected with MRPL12 cDNA clone (Cat# [RC201832]) using MegaTran 2.0 (Cat# [TT210002]).