

Recombinant Human MRM3 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. MRM3-4753H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	RNMTL1 MS Standard C13 and N15-labeled recombinant protein (NP_060616) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	Efficient translation of mitochondrial-derived transcripts requires proper assembly of the large subunit of the mitochondrial ribosome. Central to the biogenesis of this large subunit is the A-loop of mitochondrial 16S rRNA, which is modified by three rRNA methyltransferases located near mtDNA nucleoids. The protein encoded by this gene methylates G(1370) of 16S rRNA, and this modification is necessary for proper ribosomal large subunit assembly. Two transcript variants encoding different isoforms have been found for this gene.
Molecular Mass	47 kDa
AA Sequence	MAALVRPSRFVVRPLLQVVQAWDL DARRWVRALRRSPVKVVFPSGEVVEQKRAPG KQPRKAPSEASAQEQREKQPLEESASRAPSTWEESGLRYDKAYPGDRRLSSVMTI VKSRPFREKQGKILLEGRRLLISDALKAGAVPKMFFFSRLEYLKELPVDKLGKGVSLIKV KFEDIKDWSDLVTPQGIMGIFAKPDHVKMTYPKTQLQHSLPLLLICDNL RDPGNLGTI LRSAAGAGCSKVLLTKGCVDAWEPKVL RAGMGAHFRMPIINNLEWETVPNYLPPDT RVYVADNCGLYAQAEMS NKASDHGWVCDQRVMKFHKYEEEEEDVETGASQDWLPH

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	VEVQSYDSWTEAPAAVVIGGETYGVSLQSLAESTGGKRLIPVVPVGVDSLNSAM AASILLFEGKRQLRGRAEDLSRDRSYHTRTRPLEQKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name	MRM3 mitochondrial rRNA methyltransferase 3 [Homo sapiens (human)]
Official Symbol	MRM3
Synonyms	MRM3; mitochondrial rRNA methyltransferase 3; RMTL1; RNMTL1; rRNA methyltransferase 3, mitochondrial; 16S rRNA (guanosine(1370)-2'-O)-methyltransferase; 16S rRNA [Gm1370] 2'-O-methyltransferase; RNA methyltransferase like 1; RNA methyltransferase-like protein 1; putative RNA methyltransferase; EC 2.1.1.-
Gene ID	55178
mRNA Refseq	NM_018146
Protein Refseq	NP_060616

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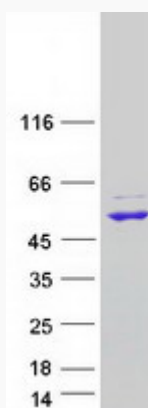
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MIM 612600

UniProt ID Q9HC36

SDS-PAGE



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