

Recombinant Human MRPL52 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. MRPL52-3332H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	MRPL52 MS Standard C13 and N15-labeled recombinant protein (NP_848026) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	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 has no bacterial homolog. Multiple transcript variants encoding different protein isoforms were identified through sequence analysis.
Molecular Mass	13.6 kDa
AA Sequence	MAALGTVLFTGVRRLHCSAAAWAGGQWRLQQGLAANPSGYGPLTELPCDSYADG RPAPPMKGQLRRKAERETFARRVLLSQEMDAGLQAWQLRQQKLQEEQRKQENA

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LKPKGASLKSPGPSQTRTRPLEQKLISEEDLAANDILDYKDDDDKV

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.

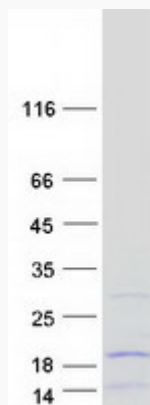
GENE INFORMATION

Gene Name	MRPL52 mitochondrial ribosomal protein L52 [Homo sapiens (human)]
Official Symbol	MRPL52
Synonyms	MRPL52; mitochondrial ribosomal protein L52; 39S ribosomal protein L52, mitochondrial; L52mt; MRP-L52; mitochondrial large ribosomal subunit protein mL52
Gene ID	122704
mRNA Refseq	NM_178336
Protein Refseq	NP_848026
MIM	611856
UniProt ID	Q86TS9

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SDS-PAGE

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