

Recombinant Human MRPL47 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. MRPL47-6443H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	MRPL47 MS Standard C13 and N15-labeled recombinant protein (NP_817125) 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. This gene is immediately adjacent to the gene for BAF complex 53 kDa subunit protein a (BAF53a), in a tail-to-tail orientation. Two transcript variants encoding different protein isoforms have been identified.
Molecular Mass	27.1 kDa
AA Sequence	MAAAGLALLCRRVSSALKSSRSLITPQVPACTGLLHTTLSRKGLEEFFDDPKNWGQE

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KVKSGAAWTCQQLRNKSNEDLHKLWYVLLKERNMLLTLEQEAKRQRLPMPSPERL
DKVVDSDMDALDKVVQEREDALRLLQTGQERARPGAWRRDIFGRIIWHKFKQWVIPW
HLNKRYNRKRFFALPYVDHFLRLEREKRARIKARKENLERKKAKILLKKFPHLAEQK
SSLVTRTRPLEQKLISEEDLAANDILDYKDDDDKV

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 MRPL47 mitochondrial ribosomal protein L47 [Homo sapiens (human)]

Official Symbol MRPL47

Synonyms MRPL47; mitochondrial ribosomal protein L47; NCM1; L47mt; CGI-204; MRP-L47; 39S ribosomal protein L47, mitochondrial; mitochondrial large ribosomal subunit protein uL29m; nasopharyngeal carcinoma metastasis-related 1; nasopharyngeal carcinoma metastasis-related protein 1

Gene ID 57129

mRNA Refseq NM_177988

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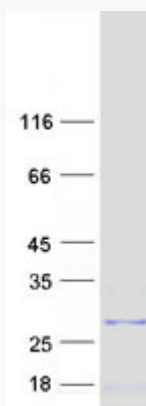
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Protein Refseq NP_817125

MIM 611852

UniProt ID Q9HD33

SDS-PAGE



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