

Recombinant Human MRPL43 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. MRPL43-6638H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	MRPL43 MS Standard C13 and N15-labeled recombinant protein (NP_789762) 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 and the gene for a semaphorin class 4 protein (SEMA4G) overlap at map location 10q24.31 and are transcribed in opposite directions. Sequence analysis identified multiple transcript variants encoding at least four different protein isoforms.
Molecular Mass	23.4 kDa
AA Sequence	MTARGTPSRFLASVLHNGLG RYVQQLQRLSFSVSRDGASSRGAREFVEREVIDFAR

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

RNPGVVIYVNSRPCCVPRVVAEYLNGAVREESIHCKSVEEISTLVQKLADQSGLDVIR
IRKPFHTDNPSIQGQWHPFTNKPTTFRGLRPREVQDPAPAQDTGLRLSAVAPQILLP
GWPDPDLPTVDPISSSLTSAPAPMLSAVSCLPIVPALTTVCSATRTRPLEQKLISEE
DLAANDILDYKDDDDKV

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 MRPL43 mitochondrial ribosomal protein L43 [Homo sapiens (human)]

Official Symbol MRPL43

Synonyms MRPL43; mitochondrial ribosomal protein L43; 39S ribosomal protein L43, mitochondrial; bMRP36a; L43mt; MRP-L43; mitochondrial ribosomal protein bMRP36a; MGC17989; MGC48892;

Gene ID 84545

mRNA Refseq NM_176792

Protein Refseq NP_789762

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MIM 611848

UniProt ID Q8N983

SDS-PAGE



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