

Recombinant Full Length Human MRPL43 Protein, GST-tagged

Cat. No. MRPL43-6423HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human MRPL43 full-length ORF (NP_115488.2, 1 a.a. - 159 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	159 amino acids
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. [provided by RefSeq
Molecular Mass	44.3 kDa
AA Sequence	MTARGTPSRFLASVLHNGLGRYVQQLQRLSFSVSRDGASSRGAREFVEREVIDFAR

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RNPGVVIYVNSRPCCVPRVVAEYLNQAVREESIHCKSVVEISTLVQKLADQSGLDVIR
IRKPFHTDNPSIQGQWHPFTNKPTTFRGLRPREVQDPAPAQVQAQ

Applications

Enzyme-linked Immunoabsorbent Assay
Western Blot (Recombinant protein)
Antibody Production
Protein Array

Notes

Best use within three months from the date of receipt of this protein.

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name

MRPL43 mitochondrial ribosomal protein L43 [Homo sapiens]

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_032112

Protein Refseq

NP_115488

MIM

611848

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UniProt ID

Q8N983

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