

Recombinant Human MRPS15 Protein, GST-tagged

Cat. No. MRPS15-5603H Lot. No. (See product label)

SPECIFICATION

Product Overview	Human MRPS15 full-length ORF (BAG37829.1, 1 a.a. - 257 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	Wheat Germ
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 28S subunit protein that belongs to the ribosomal protein S15P family. The encoded protein is more than two times the size of its E. coli counterpart, with the 12S rRNA binding sites conserved. Between human and mouse, the encoded protein is the least conserved among small subunit ribosomal proteins. Pseudogenes corresponding to this gene are found on chromosomes 15q and 19q.
Molecular Mass	54.67 kDa
AA Sequence	MLRVAWRTLSLIRTRAVTQVLVPGLPGGGSAKFPPNQWGLQPRSLLLQAARGYVVR

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KPAQSRLDDDDPPPSTLLKDYQNVPGIEKVDDVVKRLLSLEMANKKEMLKIKQEQFMK
KIVANPEDTRSLEARIIALSVKIRSYYEEHLEKHRKDKAHKRYLLMSIDQRKKMLKNLRN
TNYDVFEKICWGLGIEYTFPPLYRRRAHRRFVTKKALCIRVFQETQKLKKRRRALKAA
AAAQKQAKRRNPDSAPAKAIPKTLKDSQ

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 [MRPS15 mitochondrial ribosomal protein S15 \[Homo sapiens \]](#)

Official Symbol [MRPS15](#)

Synonyms MRPS15; mitochondrial ribosomal protein S15; 28S ribosomal protein S15, mitochondrial; FLJ11564; MRP-S15; DC37; S15mt; RPMS15; MPR-S15;

Gene ID [64960](#)

mRNA Refseq [NM_031280](#)

Protein Refseq [NP_112570](#)

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MIM	611979
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UniProt ID	P82914
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