

Recombinant Human MRPS12 Protein, GST-tagged

Cat. No. MRPS12-5601H Lot. No. (See product label)

SPECIFICATION

Product Overview	Human MRPS12 full-length ORF (AAH01617, 1 a.a. - 138 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 S12P family. The encoded protein is a key component of the ribosomal small subunit and controls the decoding fidelity and susceptibility to aminoglycoside antibiotics. The gene for mitochondrial seryl-tRNA synthetase is located upstream and adjacent to this gene, and both genes are possible candidates for the autosomal dominant deafness gene (DFNA4). Splice variants that differ in the 5 UTR have been found for this gene; all three variants encode the same protein. [provided by RefSeq
Molecular Mass	40.92 kDa

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AA Sequence	MSWSGLLHGLNTSLTCGPALVPRLWATCSMATLNQMHRLGPPKRPPRKLGPTEGR PQLKGVVLCTFTRKPKKPNSANRKCCRVRLSTGREAVCFIPGEGHTLQEHQIVLVEG GRTQDLPGVKLTVVRGKYDCGHVQKK
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	MRPS12 mitochondrial ribosomal protein S12 [Homo sapiens (human)]
Official Symbol	MRPS12
Synonyms	MRPS12; mitochondrial ribosomal protein S12; RPS12; RPMS12; RPSM12; MPR-S12; MT-RPS12; 28S ribosomal protein S12, mitochondrial; MRP-S12; S12mt; mitochondrial small ribosomal subunit protein uS12m
Gene ID	6183
mRNA Refseq	NM_021107
Protein Refseq	NP_066930

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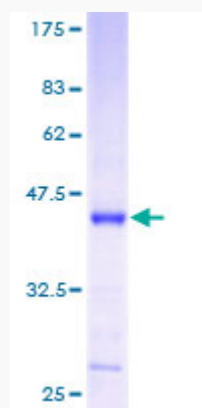
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MIM 603021

UniProt ID O15235

Quality Control
Testing:



12.5% SDS-PAGE Stained with Coomassie Blue.

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