

Recombinant Full Length Human MRPS16 Protein, GST-tagged

Cat. No. MRPS16-6469HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human MRPS16 full-length ORF (AAH21106, 1 a.a. - 137 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	137 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 28S subunit protein that belongs to the ribosomal protein S16P family. The encoded protein is one of the most highly conserved ribosomal proteins between mammalian and yeast mitochondria. Three pseudogenes (located at 8q21.3, 20q13.32, 22q12-q13.1) for this gene have been described. [provided by RefSeq]
Molecular Mass	40.81 kDa

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AA Sequence	MVHLTTLLCKAYRGGHLTIRLALGGCTNRPFYRIVAAHNKCPRDGRFVEQLGSYDPL PNSHGEKLVALNLDRIHWHWIGCGAHLSPMEKLLGLAGFFPLHPMMITNAERLRRKR AREVLLASQKTDAEATDTEATET
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	MRPS16 mitochondrial ribosomal protein S16 [Homo sapiens (human)]
Official Symbol	MRPS16
Synonyms	MRPS16; mitochondrial ribosomal protein S16; COXPD2; RPMS16; CGI-132; MRP-S16; 28S ribosomal protein S16, mitochondrial; S16mt; mitochondrial small ribosomal subunit protein bS16m
Gene ID	51021
mRNA Refseq	NM_016065
Protein Refseq	NP_057149

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MIM	609204
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UniProt ID	Q9Y3D3
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