

Recombinant Full Length Human MRPS16 Protein, C-Flag-tagged

Cat. No. MRPS16-958HFL Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human MRPS16 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	15.2 kDa

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AA Sequence	MVHLTTLLCKAYRGGHLTIRLALGGCTNRPFYRIVAAHNKCPRDGRFVEQLGSYDPL PNSHGEKLVALNL DRIRHWIGCGAHL SKPMEKLLGLAGFFPLHPMMITNAERLRRK RAREVLLASQKTDAEATDTEATETTRTRPLEQKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Full Length	Full L.

GENE INFORMATION

Gene Name	MRPS16 mitochondrial ribosomal protein S16 [Homo sapiens (human)]
Official Symbol	MRPS16
Synonyms	S16mt; COXPD2; RPMS16; CGI-132; MRP-S16
Gene ID	51021
mRNA Refseq	NM_016065.4
Protein Refseq	NP_057149.1

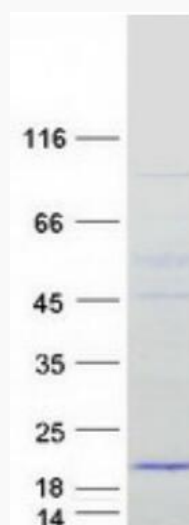
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MIM 609204

UniProt ID Q9Y3D3



Coomassie blue staining of purified MRPS16 protein.

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