

Recombinant Human MRPS18A Protein, GST/His-tagged

Cat. No. MRPS18A-1940H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human MRPS18A protein, fused to GST-tagged at N-terminus and His-tagged at C-terminus, was expressed in E. coli
Species	Human
Source	E.coli
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 S18P family. The encoded protein is one of three that has significant sequence similarity to bacterial S18 proteins. The primary sequences of the three human mitochondrial S18 proteins are no more closely related to each other than they are to the prokaryotic S18 proteins. A pseudogene corresponding to this gene is found on chromosome 3p. Alternative splicing results in multiple transcript variants.[provided by RefSeq, Jul 2010]
Form	25 mM Tris,pH 8.0,150 mM NaCl,10% glycerol,1% Sarkosyl.

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Molecular Mass	50 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration	>50 ug/mL as determined by microplate BCA method

GENE INFORMATION

Gene Name	MRPS18A mitochondrial ribosomal protein S18A [Homo sapiens]
Official Symbol	MRPS18A
Synonyms	HumanS18b; MRP-S18-3; MRPS18-3; S18bmt
Gene ID	55168
mRNA Refseq	NM_018135.3
Protein Refseq	NP_060605.1
MIM	611981
UniProt ID	Q9NVS2

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