

Recombinant Full Length Human MRPS18B Protein, GST-tagged

Cat. No. MRPS18B-6478HF Lot. No. (See product label)

SPECIFICATION

Product Overview

Human MRPS18B full-length ORF (AAH05373, 1 a.a. - 258 a.a.) recombinant protein with GST-tag at N-terminal.

Species

Human

Source

In Vitro Cell Free System

ProteinLength

258 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 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. Pseudogenes corresponding to this gene are found on chromosomes 1q and 2q. [provided by RefSeq]

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Molecular Mass	54.12 kDa
AA Sequence	MAASVLNTVLRRLPMLSLFRGSHRVQVPLQTLCTKAPSEEDSLSSVPISPYKDEPWK YLESEEYQERYGSRPVWADYRRNHKGGVPPQRTRKTCIRRNKVVGNPCPICRDHK LHVDFRNVKLLEQFVCAHTGIIFYAPYTGVCVKQHKRLTQAIQKARDHGLLIYHIPQVE PRDLDFSTSHGAVSATPPAPTLVSSDPWYPWYNWVKQPPERELSRLRRLYQGHLQE ESGPPPE SMPKMPRTPAEASSTGQTGPQSAL
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	MRPS18B mitochondrial ribosomal protein S18B [Homo sapiens]
Official Symbol	MRPS18B
Synonyms	MRPS18B; mitochondrial ribosomal protein S18B; 28S ribosomal protein S18b, mitochondrial; C6orf14; HSPC183; MRPS18 2; PTD017; S18mt-b; mrps18-b; MRP-S18-b; mitochondrial ribosomal protein S18-2; 28S ribosomal protein S18-2, mitochondrial; S18amt; MRPS18-2; HumanS18a; MRP-S18-2; DKFZp564H0223;
Gene ID	28973

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mRNA Refseq	NM_014046
Protein Refseq	NP_054765
MIM	611982
UniProt ID	Q9Y676

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