

Recombinant Human MRPS18B, MYC/DDK-tagged

Cat. No. MRPS18B-87H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human MRPS18B, fused with C-terminal MYC/DDK, was expressed in HEK293 Cells.
Species	Human
Source	HEK293
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.
Molecular Mass	29.2 kDa

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Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration	>50 ug/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.
GENE INFORMATION	
Gene Name	MRPS18B mitochondrial ribosomal protein S18B [Homo sapiens(human)]
Official Symbol	MRPS18B
Synonyms	MRPS18B; PTD017; S18amt; C6orf14; HSPC183; MRPS18-2; HumanS18a; MRP-S18-2; mitochondrial ribosomal protein S18B; 28S ribosomal protein S18b, mitochondrial; S18mt-b; mrps18-b; MRP-S18-b; mitochondrial ribosomal protein S18-2; 28S ribosomal protein S18-2, mitochondrial
Gene ID	28973
mRNA Refseq	NM_014046
Protein Refseq	NP_054765
MIM	611982
UniProt ID	Q9Y676
Chromosome Location	6p21.3
Pathway	Viral carcinogenesis

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Function	structural constituent of ribosome
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