

Recombinant Human MRPS18B Protein, GST-tagged

Cat. No. MRPS18B-5607H **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	Wheat Germ
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]
Molecular Mass	54.12 kDa

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AA Sequence	MAASVLNTVLRRLPMLSLFRGSHRVQVPLQTLCTKAPSEEDSLSSVPISPYKDEPWK YLESEEEYQERYGSRPVWADYRRNHKGGVPPQRTKTCIRRNKVVGNPCPICRDHK LHVDFRNVKLLEQFVCAHTGIIFYAPYTGVCVKQHKRLTQAIQKARDHGLLIYHIPQVE PRDLDFSTSHGAVSATPPAPTLVSSDPWYPWYNWKQPPERELSRLRRLYQGHLQE ESGPPPE SMPKMPPTPAEASSTGQTGPQSAL
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
mRNA Refseq	NM_014046

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Protein Refseq NP_054765

MIM 611982

UniProt ID Q9Y676

**Quality Control
Testing:**



12.5% SDS-PAGE Stained with Coomassie Blue.

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