

Recombinant Full Length Human MRPS7 Protein, GST-tagged

Cat. No. MRPS7-6510HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human MRPS7 full-length ORF (NP_057055.1, 1 a.a. - 242 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	242 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. In the prokaryotic ribosome, the comparable protein is thought to play an essential role in organizing the 3 domain of the 16 S rRNA in the vicinity of the P- and A-sites. Pseudogenes corresponding to this gene are found on chromosomes 8p and 12p. [provided by RefSeq
Molecular Mass	54.6 kDa
AA Sequence	MVAPAVKVARGW SGLALGVRR AVLQLPGLTQVRWSRYSPEFKDPLIDKEYYRKPVE

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ELTEEEKYVRELKKTQLIKAAPAGKTSSVFEDPVISKFTNMMMIGGNKVLARSLMIQT
LEAVKRKQFEKYHAASAEQATIERNPYTIFHQALKNCEPMIGLVPILKGGRFYQVPV
PLPDRRRRFLAMKWMITECRDKKHQRTLMPEKLSHKLLEAFHNQGPVIK RKHDLHK
MAEANRALAHYRWW

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 MRPS7 mitochondrial ribosomal protein S7 [Homo sapiens]

Official Symbol MRPS7

Synonyms MRPS7; mitochondrial ribosomal protein S7; RP-S7; RPMS7; MRP-S7;

Gene ID 64967

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