

Recombinant Full Length Human MRPS5 Protein, GST-tagged

Cat. No. MRPS5-6508HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human MRPS5 full-length ORF (NP_114108.1, 1 a.a. - 430 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	430 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 S5P family. Pseudogenes corresponding to this gene are found on chromosomes 4q, 5q, and 18q. [provided by RefSeq]
Molecular Mass	74.4 kDa
AA Sequence	MATAVRAVGCLPVLCSGTAGHLLGRQCSLNTLPAASILAWKSVLGNGHLSSLGTRD THPYASLSRALQTQCCISSPSHLMSQQYRPYSFFTKLTADDELWKGALAETGAGAKK

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GRGKRTKKKKRKDLNRGQIIGEGRYGFLWPGLNVPLMKNGAVQTIAQRSKEEQEKV
EADMIQQREEWDRKKKMVKRERGWSGNSWGGISLGPPDPGPCGETYEDFDTRIL
EVRNVFTMTAKEGRKKSIRVLVAVGNGKGAAGFSIGKATDRMDAFRKAKNRAVHHL
HYIERYEDHTIFHDISLRFKRTTHIKMKKQPKGYGLRCHRAITICRLIGIKDMYAKVSGSI
NMLSLTQGLFRGLSRQETHQQLADKKGLHVVEIREECGPLPIVVASPRGPLRKDPEP
EDEVPDVKLDWEDVKTAQGMKRSVWSNLKRAAT

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

MRPS5 mitochondrial ribosomal protein S5 [Homo sapiens]

Official Symbol

MRPS5

Synonyms

MRPS5; mitochondrial ribosomal protein S5; 28S ribosomal protein S5, mitochondrial;
mitochondrial 28S ribosomal protein S5; MRP S5; S5mt; MRP-S5;

Gene ID

64969

mRNA Refseq

NM_031902

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Protein Refseq	NP_114108
MIM	611972
UniProt ID	P82675

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