

Recombinant Human MRPS5 Protein, GST-tagged

Cat. No. MRPS5-5624H **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	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 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 THPYASLSRALQTQCCISSPSHLMSQQYRPYSFFTKLTADELWKGALAETGAGAKK GRGKRTKKKKRKDLNRGQIIGEGRYGFLWPGLNVPLMKNGAVQTIAQRSKEEQEKV

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

EADMIQQREEWDRKKKMKVKRERGWSGNSWGGISLGPPDPGPCGETYEDFDTRIL
 EVRNVFTMTAKEGRKKKSIRVLVAVGNGKGAAGFSIGKATDRMDAFRKAKNRAVHHL
 HYIERYEDHTIFHDISLRFKRTHIKMKKQPKGYGLRCHRAITICRLIGIKDMYAKVSGSI
 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

Protein Refseq

NP_114108

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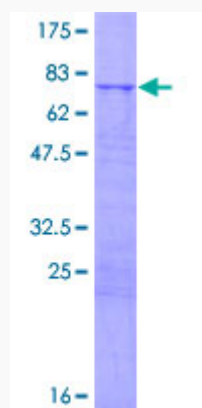
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MIM 611972

UniProt ID P82675

**Quality Control
Testing:**



12.5% SDS-PAGE Stained with Coomassie Blue.

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