

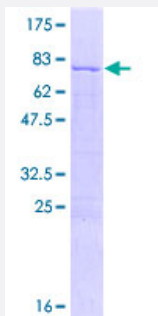
Full-Length

MRPS31 (Human) Recombinant Protein (P01)

Catalog # H00010240-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human MRPS31 full-length ORF (AAH22045.1, 1 a.a. - 395 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MFPRVSTFLPLRPLSRHPLSSGSPETSAAAIMLLTVRHGTVRYRSSALLARTKNNIQRYPGTNSVIC
SKKDKQSVRTEEISKETSESQDSEKENTKKDLLGIKGMKVELSTVNVRTTKPPKRRPLKSLEAAL
GRLRRATEYAPKKRIEPLSPELVAAASAVADSLPFDKQTTKSELLSQLQQHEEESRAQRDAKRP
KISFSNIISDMKVARSATARVRSRPELRIQFDEGYDNYPGQEKTDLLKKRKNIFTGKRLNIFDMMAV
TKEAPETDTSPSLWDVEFAKQLATVNEQPLQNGFEELIQWTKGKLWEFPINNEAGFDDDGSEF
HEHIFLEKHLESFPKQGPIRHFMELVTCGLSKNPYLSVKQKVEHIEWFRNYFNEKKDILKESNIQFN

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

71.7

Interspecies Antigen Sequence

Mouse (64); Rat (65)

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

Storage Instruction

Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Note

Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — MRPS31

Entrez GeneID[10240](#)**GeneBank Accession#**[BC022045.1](#)**Protein Accession#**[AAH22045.1](#)**Gene Name**

MRPS31

Gene Alias

IMOGN38, MRP-S31, S31mt

Gene Description

mitochondrial ribosomal protein S31

Gene Ontology[Hyperlink](#)**Gene Summary**

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. The 28S subunit of the mammalian mitoribosome may play a crucial and characteristic role in translation initiation. This gene encodes a 28S subunit protein that has also been associated with type 1 diabetes; however, its relationship to the etiology of this disease remains to be clarified. Pseudogenes corresponding to this gene have been found on chromosomes 3 and 13. [provided by RefSeq]

Other Designations

OTTHUMP00000018305|imogen 38