

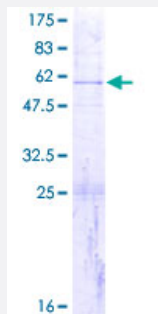
Full-Length

MRPS7 (Human) Recombinant Protein (P01)

Catalog # H00051081-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description	Human MRPS7 full-length ORF (NP_057055.1, 1 a.a. - 242 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	MVAPAVKVARGWSGLALGVRRVQLQLPGLTQVRWSRYSPEFKDPLIDKEYYRKPV EELTEEEKY VRELKKTQLIKAAPAGKTSSVFEDPVISKFTNMMMIGGNKVLARSLMIQTLEAVKRKQFEKYHAAS AEEQATIERNPYTIHQALKNCEPMIGLVPILKGGRFYQVPVPLPDRRRRFLAMKWMITECRDKKH QRTLMP EKLSHKLLEAFHNQGPVIKRKHDLHKMAEANRALAHYRWW
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	54.6
Interspecies Antigen Sequence	Mouse (84); Rat (84)
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 — MRPS7

Entrez GeneID [51081](#)

GeneBank Accession# [NM_015971.2](#)

Protein Accession# [NP_057055.1](#)

Gene Name MRPS7

Gene Alias MRP-S, MRP-S7, RP-S7, RPMS7, S7mt, bMRP27a

Gene Description mitochondrial ribosomal protein S7

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 28 S 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]

Other Designations 30S ribosomal protein S7 homolog