

Recombinant Full Length Human MRPS7 Protein, C-Flag-tagged

Cat. No. MRPS7-1957HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human MRPS7 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	28 kDa

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AA Sequence	MVAPAVKVARGWSGLALGVRRVLQLPGLTQVRWSRYSPEFKDPLIDKEYYRKPVE ELTEEEKYVRELKK TQLIKAAPAGKTSSVFEDPVISKFTNMMMIGGNKVLARSLMIQT LEAVKRKQFEKYHAASAEQATIERN PYTIFHQALKNCEPMIGLVPILKGGRFYQVP VPLPDRRRRFLAMKWMITECRDKKHQRTLMPKLSHKLL EAFHNQGPVIKRKHDLH KMAEANRALAHYRWW TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Full Length	Full L.

GENE INFORMATION

Gene Name	MRPS7 mitochondrial ribosomal protein S7 [Homo sapiens (human)]
Official Symbol	MRPS7
Synonyms	S7mt; MRP-S; RP-S7; RPMS7; MRP-S7; COXPD34; bMRP27a
Gene ID	51081
mRNA Refseq	NM_015971.4

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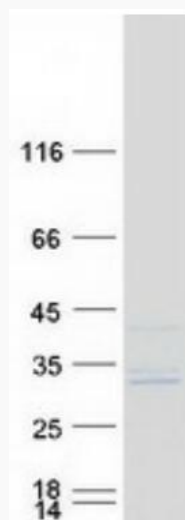
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Protein Refseq NP_057055

MIM 611974

UniProt ID Q9Y2R9



Coomassie blue staining of purified MRPS7 protein.

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