

AR50842PU-N

Human MRPL13 (1-178, His-tag) - Purified

Alternate names:

39S ribosomal protein L13, L13mt, MRP-L13, mitochondrial

Quantity:

0.5 mg

Concentration:

1 mg/ml (determined by Bradford assay)

Background:

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. MRPL13 is a 39S subunit protein.

Uniprot ID:

[Q9BYD1](#)

NCBI:

[NP_054797](#)

GenelD:

[28998](#)

Species:

Human

Source:

E. coli

Format:

State: Liquid purified protein

Purity: >85% by SDS - PAGE

Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 0.4M urea, 10% glycerol

Description:

Recombinant human MRPL13 protein, fused to His-tag at N-terminus, was expressed in E.coli.

AA Sequence:

MGSSHHHHH SSGLVPRGSH MGSMSFSRA PQQWATFARI WYLLDGKMQP PGKLAAMASI
RLQGLHKPVY HALSDCGDHV VIMNTRHIAF SGNKWEQKVY SSHTGYPGGF RQVTAAQLHL
RDPVAIVKLA IYGMPLKLNH RRTMMERLHL FPDEYIPEDI LKNLVEELPQ PRKIPKRLDE
YTQEEIDAFP RLWTPPEDYR L

Molecular weight: 23.1 kDa (201aa)

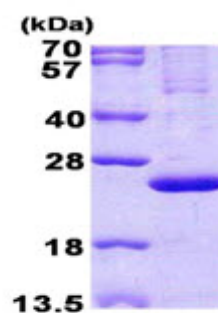
Storage:

Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.

General Readings:

Suzuki T., et al. (2001) J. Biol. Chem. 276, 21724-36.

Pictures:



15% SDS-PAGE (3ug)