

Recombinant human MRPL2 protein

Catalog Number: ATGP2904

PRODUCT INFORMATION

Expression system

E.coli

Domain

84-202aa

UniProt No.

Q5T653

NCBI Accession No.

NP_057034

Alternative Names

39S ribosomal protein L2 mitochondrial, 39S ribosomal protein L2, mitochondrial, CGI-22, MRP-L14, RPML14

PRODUCT SPECIFICATION

Molecular Weight

15.5 kDa (142aa) confirmed by MALDI-TOF

Concentration

0.25mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Phosphate buffer (pH 8.0) containing 1mM EDTA, 50% glycerol, 2mM DTT

Purity

> 90% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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.

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MRPL2 is a 39S subunit protein that belongs to the EcoL2 ribosomal protein family. Recombinant human MRPL2 protein, fused to His-tag at N-terminus, was expressed in *E. coli* and purified by using conventional chromatography techniques.

Amino acid Sequence

MGSSHHHHHHH SSGLVPRGSH MGSGRDHTGR IRVHGIGGGH KQRYRMIDFL RFRPEETKSG PFEEKVIQVR YDPCRSADIA
LVAGGSRKRW IIATENMQAG DTILNSNHIG RMAVAAREGD AHPLGALPVG TLINNVESEP GR

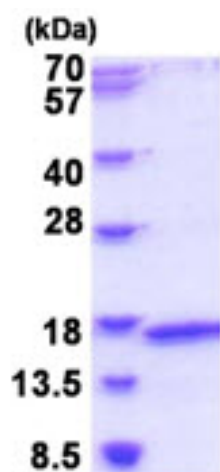
General References

O'Brien TW, Fiesler SE, et al. (1999). *J Biol Chem.* 274(51):36043-51.

Kenmochi N, Suzuki T, et al. (2001). *Genomics.* 77(1-2):65-70.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)