

# Recombinant human MRPL1 protein

Catalog Number: ATGP2052

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

51-325aa

### UniProt No.

Q9BYD6

### NCBI Accession No.

NP\_064621

### Alternative Names

39S ribosomal protein L1 mitochondrial precursor, 39S ribosomal protein L1, mitochondrial precursor, BM022, L1MT, MRP-L1

## PRODUCT SPECIFICATION

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### Molecular Weight

33.8 kDa (298aa) confirmed by MALDI-TOF

### Concentration

0.5mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.1M NaCl, 30% glycerol, 1mM DTT

### Purity

> 80% 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

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### Description

39S ribosomal protein L1, mitochondrial precursor, also known as MRPL1, is a 338 amino acid mitochondrial protein that exists as a component of the 39S ribosomal subunit and works in conjunction with other MRPs to mediate protein synthesis. Mitochondrial ribosomes consist of a large 39S subunit and a small 28S subunit, both of which are comprised of multiple mitochondrial ribosomal proteins (MRPs) that are encoded by nuclear genes and are essential for protein synthesis within mitochondria. MRPL1 exists as two isoforms produced by

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alternative splicing. Isoform one of MRPL1 is ubiquitously expressed while isoform two is specifically expressed in heart. Recombinant human MRPL1 protein with His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

## Amino acid Sequence

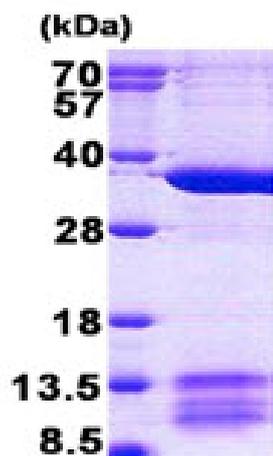
MGSSHHHHHH SGLVPRGSH MGSKKTKKGA KEKTPDEKGD EIEKIKAYPY MEGEPEDDVY LKRLYPRQIY EVEKAVHLLK  
KFQILDFTSP QOSVYLDLTL DMALGKKKNV EPFTSVLSLP YPFASEINKV AVFTENASEV KIAEENGA AF AGGTSLIQKI  
WDDEIVADFY VAVPEIMPEL NRLRKKLNKK YPKLSRNSIG RDIPKMLELF KNGHEIKVDE ERENFLQTKI ATLDMSSDQI  
AANLQAVINE VCRHRPLNLG PFVVRAFLRS STSEGLLLKI DPLLPKEVKN EEEKEDA

## General References

Spirina O., et al. (2000) Gene. 261:229-234  
Kenmochi N., et al. (2001) Genomics. 77:65-70.

## DATA

### SDS-PAGE



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

15% SDS-PAGE (3ug)