Recombinant human MRPL1 protein

Catalog Number: ATGP2052

PRODUCT INFORMATION

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

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

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 proteinto His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

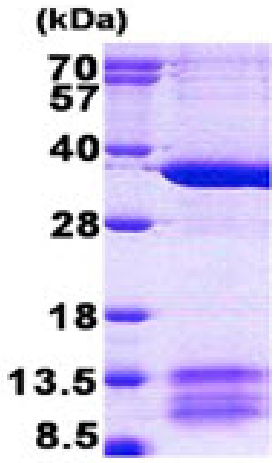
MGSSHHHHHH SSGLVPRGSH MGSKKTKKGA KEKTPDEKKD EIEKIKAYPY MEGEPEDDVY LKRLYPRQIY EVEKAVHLLK KFQILDFTSP KQSVYLDLTL DMALGKKKNV EPFTSVLSLP YPFASEINKV AVFTENASEV KIAEENGAAF AGGTSLIQKI WDDEIVADFY VAVPEIMPEL NRLRKKLNKK YPKLSRNSIG RDIPKMLELF KNGHEIKVDE ERENFLQTKI ATLDMSSDQI AANLQAVINE VCRHRPLNLG PFVVRAFLRS STSEGLLLKI DPLLPKEVKN EESEKEDA

General References

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

DATA

SDS-PAGE



15% SDS-PAGE (3ug)

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