

Recombinant Human mitochondrial ribosomal protein L1, His-tagged

Cat. No. MRPL1-537H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	MRPL1, 51-325aa, Human, His tag, E.coli
Species	Human
Source	E.coli
ProteinLength	51-325 a.a.
Description	<p>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 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.</p>
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.1M NaCl, 30% glycerol, 1mM DTT
Molecular Mass	33.8kDa (298aa) confirmed by MALDI-TOF

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AA Sequence

MGSSHHHHHH SSSLVPRGSH MGSKKTKKGA KEKTPDEKGD EIEKIKAYPY
 MEGEPEDDVY LKRLYPRQIY EVEKAVHLLK KFAQILDFTSP QQSVYLDLTL
 DMALGKKKNV EPFTSVLSLP YPFASEINKV AVFTENASEV KIAEENGAAP
 AGGTSLIQKI WDDEIVADFY VAVPEIMPEL NRLRKKLNKK YPKLSRNSIG
 RDIPKMLELF KNGHEIKVDE ERENFLQTKI ATLDMSSDQI AANLQAVINE
 VCRHRPLNLG PFVVRAFLRS STSEGLLLKI DPLLPKEVKN EESEKEDA

Purity >80% by SDS - PAGE

Storage Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.

Concentration 0.5 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name [MRPL1 mitochondrial ribosomal protein L1 \[Homo sapiens \]](#)

Official Symbol MRPL1

Synonyms MRPL1; mitochondrial ribosomal protein L1; 39S ribosomal protein L1, mitochondrial; BM022; L1MT; MRP-L1; FLJ96680;

Gene ID [65008](#)

mRNA Refseq [NM_020236](#)

Protein Refseq [NP_064621](#)

MIM [611821](#)

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UniProt ID	Q9BYD6
Chromosome Location	4q21.1
Function	RNA binding; structural constituent of ribosome;

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