

Product information



MRPL1, 51-325aa

Human, His-tagged, Recombinant, *E.coli*

Cat. No. IBATGP2052

Full name: 39S ribosomal protein L1, mitochondrial precursor

NCBI Accession No.: NP_064621

Synonyms: BM022, L1MT, MRP-L1

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 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</p> <p>Molecular Weight: 33.8kDa (298aa) confirmed by MALDI-TOF</p> <p>Purity: > 80% by SDS - PAGE</p> <p>Concentration: 0.5 mg/ml (determined by Bradford assay)</p>	<p>15% SDS-PAGE (3ug)</p>
<p>Sequences of amino acids:</p> <p>MGSSHHHHH SSGLVPRGSH MGSKTKKGA KEKTPDEKGD EIEKIKAYPY MEGEPEDDVY LKRLYPRQIY EVEKAVHLLK KFQILDFTSP KQSVYLDLTL DMALGKKKNV EPFTSVLSLP YPFASEINKV AVFTENASEV KIAEENGAAF AGGTSLIQKI WDDEIVADFY VAVPEIMPEL NRLRKKLNKK YPKLSRNSIG RDI PKMLELF KNGHEIKVDE ERENFLQTKI ATLDMSSDQI AANLQAVINE VCRHRPLNLG PFVVRAFLRS STSEGLLLLKI DPLLPKEVKN EESEKEDA</p>	

General references:

Spirina O., *et al.* (2000) *Gene*. 261:229-234

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

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

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.



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