

Recombinant Human mitochondrial ribosomal protein L2, His-tagged

Cat. No. MRPL2-681H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	MRPL2, 84-202aa Human, His tag, E.coli
Species	Human
Source	E.coli
ProteinLength	84-202 a.a.
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. 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.
Form	Liquid. In 20mM Phosphate buffer (pH 8.0) containing 1mM EDTA, 50% glycerol, 2mM DTT.

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Molecular Mass	15.5 kDa (142aa) confirmed by MALDI-TOF.
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSGRDHTGR IRVHGIGGGH KQRYRMIDFL RFRPEETKSG PFEEKVIQVR YDPCRSADIA LVAGGSRKRW IIATENMQAG DTILNSNHIG RMAVAAREGD AHPLGALPVG TLINNVESEP GR
Purity	>90% 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	0.25 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name	MRPL2 mitochondrial ribosomal protein L2 [Homo sapiens]
Official Symbol	MRPL2
Synonyms	MRPL2; mitochondrial ribosomal protein L2; RPML14; MRP-L14;
Gene ID	65007

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