

Recombinant Human MRPL13, His-tagged

Cat. No. MRPL13-7574H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human MRPL13 protein, fused to His-tag at N-terminus, was expressed in E.coli.
Species	Human
Source	E.coli
ProteinLength	1-178aa
Antigen 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. MRPL13 is a 39S subunit protein.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.4M urea, 10% glycerol
Molecular Mass	23.1 kDa (201aa)
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSMSSFsRA PQQWATFARI WYLLDGKMQP PGKLAAMASI RLQGLHKPVY HALSDCGDHV VIMNTRHIAF SGNKWEQKVY

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SSHTGYPPGGF RQVTAAQLHL RDPVAIVKLA IYGMLPKNLH RRTMMERLHL
FPDEYIPEDI LKNLVEELPQ PRKIPKRLDE YTQEEIDAFP RLWTPPEDYR L

Purity	>85% as determined by SDS - PAGE
Applications	SDS-PAGE
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.
Concentration	1 mg/ml

GENE INFORMATION

Gene Name	MRPL13 mitochondrial ribosomal protein L13 [Homo sapiens]
Official Symbol	MRPL13
Synonyms	MRPL13; mitochondrial ribosomal protein L13; 39S ribosomal protein L13, mitochondrial; L13; L13A; L13mt; RPL13; RPML13; MRP-L13;
Gene ID	28998
mRNA Refseq	NM_014078
Protein Refseq	NP_054797
MIM	610200
UniProt ID	Q9BYD1

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Chromosome Location	8q22.1-q22.3
Pathway	Ribosome, organism-specific biosystem; Ribosome, conserved biosystem;
Function	protein binding; structural constituent of ribosome;

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