

Recombinant Human mitochondrial ribosomal protein L48, His-tagged

Cat. No. MRPL48-616H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	MRPL48, 29-212aa, Human, His tag, E.coli
Species	Human
Source	E.coli
ProteinLength	29-212 a.a.
Description	Mammalian mitochondrial ribosomal proteins 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. This gene encodes a 39S subunit protein. A pseudogene corresponding to this gene is found on chromosome 6p. Recombinant human MRPL48 protein, fused to His-tag at N-terminus, was expressed in E.coli.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol
Molecular Mass	23.1 kDa (207aa)

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AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSSGEKPIY SVGGILLSIS RPYKTKPTHG IGKYKHLIKA EEPKKKKGKV EVRAINLGTD YEYGVLNHL TAYDMTLAES YAQYVHNLCN SLSIKVEESY AMPTKTIEVL QLQDQGSKML LDSVLTHER VVQISGLSAT FAEIFLEIIQ SSLPEGVRLS VKEHTEEDFK GRFKARPELE ELLAKLK
Purity	>85% 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	1 mg/ml (determined by Bradford assay)
GENE INFORMATION	
Gene Name	MRPL48 mitochondrial ribosomal protein L48 [Homo sapiens]
Official Symbol	MRPL48
Synonyms	MRPL48; mitochondrial ribosomal protein L48; 39S ribosomal protein L48, mitochondrial; CGI 118; L48MT; CGI-118; HSPC290; MRP-L48; FLJ17047; FLJ99260; MGC13323;
Gene ID	51642
mRNA Refseq	NM_016055
Protein Refseq	NP_057139
MIM	611853
UniProt ID	Q96GC5

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Chromosome Location	11q13.4
Function	protein binding; structural constituent of ribosome;