
Product Data Sheet

Product Name: MRPL48 Human
 Cat. No.: GP23957
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Mitochondrial Ribosomal Protein L48; MRP-L48; L48MT; 39SRibosomal Protein L48; Mitochondrial; CGI-118; HSPC290; 39S ribosomal proteinL48; mitochondrial.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSSGEKPIY SVGGILLSIS RPYKTKPTHG IGKYKHLIKA EEPKKKKKGKVEVRainLGTD YEYGVlnIHL TAYDMTLAES YAQYVHNLCN SLSIKVEESY AMPTKTIEVL QLQDQGSKMLLDsvLTtHER VVQISGLSAT FAEIFLEIIQ SSLPEGVRLSVKEHTEEDFK GRFKARPELE ELLAKLK.		
Formulation	MRPL48 protein solution (1 mg/ml) containing 20mMTris-HCl buffer (pH 8.0) and 10% glycerol.		

Introduction

Mitochondrial Ribosomal Protein L48, also known as MRPL48, is a mammalian mitochondrial ribosomal protein which assists in protein synthesis within the mitochondrion. Mitochondrial ribosomes, mitoribosomes, consist of a small 28S subunit and a large 39S subunit. They include an estimated 75% protein to rRNA composition while comparing to prokaryotic ribosomes, where this ratio is reversed. An additional dissimilarity between mammalian mitoribosomes & prokaryotic ribosomes is that the latter contain a 5S rRNA. Between different species, the proteins containing the mitoribosome differ very much in sequence, as well as in biochemical properties from time to time, which prevents easy recognition through sequence homology. MRPL48 encodes a 39S subunit protein. A pseudogene corresponding to MRPL48 is found on chromosome 6p.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store frozen at -20°C for longer

Caution: Product has not been fully validated for medical applications. For research use only.

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periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

MRPL48 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 207 amino acids (29-212 a.a) and having a molecular mass of 23.1kDa. MRPL48 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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