
Product Data Sheet

Product Name: MRPL13 Human
 Cat. No.: GP23956
 Batch No.: 1

Product Data

Purity	>98%	Source	E.coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	L13; L13A; L13mt; RPL13; RPML13; 39S ribosomal protein L13; mitochondrial; MRPL13.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSMSSFSA PQQWATFARI WYLLDGKMQP PGKLAAMASI RLQGLHKPVY HALSDCGDHV VIMNTRHIAF SGNKWEQKVY SSHTGYPGGF RQVTAAQLHL RDPVAIVKLA IYGMLPKNLH RRTMMERLHL FPDEYIPEDI LKNLVEELPQ PRKIPKRLDE YTQEEIDAFP RLWTPPEDYR L.		
Formulation	MRPL13 protein solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.4M urea and 10% glycerol.		

Introduction

Mammalian mitochondrial ribosomal proteins are encoded by nuclear genes and assist in protein synthesis within the mitochondrion. Mitochondrial ribosomes (mitoribosomes) consist of a small 28S subunit and a large 39S subunit (MRPL13 is a 39S subunit protein) and have an estimated 75% protein to rRNA composition compared to prokaryotic ribosomes, where this ratio is reversed. An additional difference between mammalian mitoribosomes and prokaryotic ribosomes is that the second contain a 5S rRNA. Among various species, the proteins comprising the mitoribosome differ greatly in sequence, and sometimes in biochemical properties, which prevents easy recognition by sequence homology.

Stability

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

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

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MRPL13 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 201 amino acids (1-178 a.a.) and having a molecular mass of 23.1kDa. MRPL13 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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