9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

MRPL13 Human

Mitochondrial Ribosomal Protein L13 Human Recombinant
RCP1396

Product Overview

Name	MRPL13 Human
Description	
Mitochondrial Ribosomal Protein L13 Human Recombinant	
Accession (Primary)	Q9BYD1
Synonyms	
L13, L13A, L13mt, RPL13, RPML13, 39S ribosomal protein L13, mitochondrial, MRPL13.	
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.	
Source	
E.coli.	
Physical Appearance	
Sterile Filtered colorless solution.	
Formulation	
MRPL13 protein solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.4M urea and 10% glycerol.	
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.	
Purity	
Greater than 85% as determined by SDS-PAGE.	
Amino acid sequence	
MGSSHHHHHH SSGLVPRGSH MGS MSSFSRA PQQWATFARI WYLLDGKMQP PGKLAAMASI RLQGLHKPVY HALSDCGDHV VIMNTRHIAF SGNKWEQKVY SSHTGYPGGF RQVTAAQLHL RDPVAIVKLA IYGMLPKNLH	

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RRTMMERLHL FPDEYIPEDI LKNLVEELPQ PRKIPKRLDE YTQEEIDAFP RLWTPPEDYR L.

Precautions

MRPL13 Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (Q9BYD1)