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

MRPL48 Human

Mitochondrial Ribosomal Protein L48 Human Recombinant
RCP1399

Product Overview

Name	MRPL48 Human

Description

Mitochondrial Ribosomal Protein L48 Human Recombinant

Accession (Primary)	Q96GC5

Synonyms

Mitochondrial Ribosomal Protein L48, MRP-L48, L48MT, 39S Ribosomal Protein L48, Mitochondrial, CGI-118, HSPC290, 39S ribosomal protein L48, mitochondrial.

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.

Source

Escherichia Coli.

Physical Appearance

Sterile Filtered clear solution.

Formulation

MRPL48 protein solution (1 mg/ml) containing 20mM Tris-HCl buffer (pH 8.0) 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

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MGSSHHHHHH SSGLVPRGSH MGS SGEKPIY SVGGILLSIS RPYKTKPTHG IGKYKHLIKA EEPKKKKGKV EVRAINLGTD YEYGVLNIHL TAYDMTLAES YAQYVHNLCN SLSIKVEESY AMPTKTIEVL QLQDQGSKML LDSVLTTHER VVQISGLSAT FAEIFLEIIQ SSLPEGVRLS VKEHTEEDFK GRFKARPELE ELLAKLK.

Precautions

MRPL48 Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (Q96GC5)