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32-4242: Recombinant Human Mitochondrial Ribosomal Protein L48

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

Description

Source : Escherichia Coli. 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. 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.

Product Info

Amount :	20 µg
Purification :	Greater than 85% as determined by SDS-PAGE.
Content :	MRPL48 protein solution (1 mg/ml) containing 20mM Tris-HCl buffer (pH 8.0) and 10% glycerol.
Storage condition :	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.
Amino Acid :	MGSSHHHHHH SSGLVPRGSH MGSSGEKPIY SVGGILLSIS RPYKTKPTHG IGKYKHLIKA EEPKKKKGKV EVRAINLGTD YEYGVLNIHL TAYDMTLAES YAQYVHNLCN SLSIKVEESY AMPTKTIEVL QLQDQGSKML LDSVLTTHER VVQISGLSAT FAEIFLEIIQ SSLPEGVRLS VKEHTEEDFK GRFKARPELE ELLAKLK.