

32-4241: Recombinant Human Mitochondrial Ribosomal Protein L13

Alternative Name : L13,L13A,L13mt,RPL13,RPML13,39S ribosomal protein L13,mitochondrial,MRPL13.

Description

Source : E.coli. 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. 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.

Product Info

Amount :	20 µg
Purification :	Greater than 85% as determined by SDS-PAGE.
Content :	MRPL13 protein solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.4M urea 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 :	MGSSHHHHH SSGLVPRGSH MGSMSFSRA PQQWATFARI WYLLDGKMQP PGKLAAMASI RLQGLHKPVY HALSDCGDHV VIMNTRHIAF SGNKWEQKVY SSHTGYGGF RQVTAAQLHL RDPVAIVKLA IYGMLPKNLH RRTMMERLHL FPDEYIPEDI LKNLVEELPQ PRKIPKRLDE YTQEEIDAFP RLWTPPEDYR L.

