39s Ribosomal Protein L10, Mitochondrial (MRPL10) Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	39S ribosomal protein L10, mitochondrial (MRPL10), Recombinant Protein
Full Product Name	Recombinant Human 39S ribosomal protein L10, mitochondrial (MRPL10)
Product Gene Name	MRPL10 recombinant protein
Product Synonym Gene Name	MRPL10
Sequence	GSKAVTRHRR VMHFQRQKLM AVTEYIPPKP AIHPSCLPSP PSPPQEEIGL IRLLRREIAA VFQDNRMIAV CQNVALSAED KLLMRHQLRK HKILMKVFPN QVLKPFLEDS KYQNLLPLFV GHNMLLVSEE PKVKEMVRIL RTVPFLPLLG GCIDDTILSR QGFINYSKLP SLPLVQGELV GGLTCLTAQT HSLLQHQPLQ LTTLLDQYIR EQREKDSVMS ANGKPDPDTV PDS
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	30,307 Da
Sequence Positions	29-261, Full length protein
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
OMIM	611825
3D Structure	ModBase 3D Structure for Q7Z7H8
Species	Human
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for MRPL10 recombinant protein	Mammalian mitochondrial ribosomal proteins are encoded by nuclear genes and help in protein synthesis within the mitochondrion. Mitochondrial ribosomes (mitoribosomes) consist of a small 28S subunit and a large 39S subunit. They have an estimated 75% protein to rRNA composition compared to prokaryotic ribosomes, where this ratio is reversed. Another difference between mammalian mitoribosomes and prokaryotic ribosomes is that the latter contain a 5S rRNA. Among different species, the proteins comprising the mitoribosome differ greatly in sequence, and sometimes in biochemical properties, which prevents easy recognition by sequence homology. This gene encodes a 39S subunit protein. A pseudogene corresponding to this gene is found on chromosome 5q.
Other Notes	Small volumes of MRPL10 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for MRPL10 purchase	MBS1416605 is a recombinant protein targeting MRPL10. Also known as Recombinant Human 39S ribosomal protein L10, mitochondrial (MRPL10). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MRPL10. It may not necessarily be applicable to this product.

NCBI GI #	22547114
NCBI GeneID	124995
NCBI Accession #	NP_660298.2
UniProt Primary Accession #	Q7Z7H8
UniProt Secondary Accession #	Q96B80; Q96Q55; A6NGJ4
UniProt Related Accession #	Q7Z7H8
GenBank Nucleotide #	NM_145255.3
NCBI Official Full Name	39S ribosomal protein L10, mitochondrial isoform a
NCBI Official Synonym Full Names	mitochondrial ribosomal protein L10
NCBI Official Symbol	MRPL10
NCBI Official Synonym Symbols	L10MT; MRPL8; RPML8; MRP-L8; MRP-L10
UniProt Protein Name	39S ribosomal protein L10, mitochondrial
UniProt Synonym Protein Names	39S ribosomal protein L8, mitochondrial; L8mt; MRP-L8; Mitochondrial large ribosomal subunit protein uL10m
Protein Family	39S ribosomal protein
UniProt Gene Name	MRPL10
UniProt Synonym Gene Names	MRPL8; RPML8; L10mt; MRP-L10; L8mt; MRP-L8
NCBI Protein Information	39S ribosomal protein L10, mitochondrial
NCBI Summary for MRPL10	Mammalian mitochondrial ribosomal proteins are encoded by nuclear genes and help in protein synthesis within the mitochondrion. Mitochondrial ribosomes (mitoribosomes) consist of a small 28S subunit and a large 39S subunit. They have an estimated 75% protein to rRNA composition compared to prokaryotic ribosomes, where this ratio is reversed. Another difference between mammalian mitoribosomes and prokaryotic ribosomes is that the latter contain a 5S rRNA. Among different species, the proteins comprising the mitoribosome differ greatly in sequence, and sometimes in biochemical properties, which prevents easy recognition by sequence homology. This gene encodes a 39S subunit protein. Sequence analysis identified three transcript variants that encode two different isoforms. A pseudogene corresponding to this gene is found on chromosome 5q. [provided by RefSeq, Nov 2010]
Research Articles on MRPL10	**1.** Observational study of gene-disease association, gene-environment interaction, and pharmacogenomic / toxicogenomic. (HuGE Navigator)
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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