39s Ribosomal Protein L41, Mitochondrial (MRPL41) Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	39S ribosomal protein L41, mitochondrial (MRPL41), Recombinant Protein
Full Product Name	Recombinant Human 39S ribosomal protein L41, mitochondrial (MRPL41)
Product Gene Name	MRPL41 recombinant protein
Product Synonym Gene Name	MRPL41
Sequence	GADRMSKWTS KRGPRSFRGR KGRGAKGIGF LTSGWRFVQI KEMVPEFVVP DLTGFKLKPY VSYLAPESEE TPLTAAQLFS EAVAPAIEKD FKDGTFDPDN LEKYGFEPTQ EGKLFQLYPR NFLR
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	15,383 Da
Sequence Positions	14-137, 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	611846
3D Structure	ModBase 3D Structure for Q8IXM3
Species	Human
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for MRPL41 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 that belongs to the YmL27 ribosomal protein family.
Other Notes	Small volumes of MRPL41 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 MRPL41 purchase	MBS1353014 is a recombinant protein targeting MRPL41. Also known as Recombinant Human 39S ribosomal protein L41, mitochondrial (MRPL41). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MRPL41. It may not necessarily be applicable to this product.

NCBI GI #	21265093
NCBI GeneID	64975
NCBI Accession #	NP_115866.1
UniProt Primary Accession #	Q8IXM3
UniProt Secondary Accession #	Q96Q49
UniProt Related Accession #	Q8IXM3
GenBank Nucleotide #	NM_032477.2
NCBI Official Full Name	39S ribosomal protein L41, mitochondrial
NCBI Official Synonym Full Names	mitochondrial ribosomal protein L41
NCBI Official Symbol	MRPL41
NCBI Official Synonym Symbols	BMRP; PIG3; MRPL27; RPML27; MRP-L27
UniProt Protein Name	39S ribosomal protein L41, mitochondrial
UniProt Synonym Protein Names	39S ribosomal protein L27 homolog; Bcl-2-interacting mitochondrial ribosomal protein L41; Cell proliferation-inducing gene 3 protein; MRP-L27 homolog; Mitochondrial large ribosomal subunit protein mL41
Protein Family	39S ribosomal protein
UniProt Gene Name	MRPL41
UniProt Synonym Gene Names	BMRP; MRPL27; RPML27; L41mt; MRP-L41
NCBI Protein Information	39S ribosomal protein L41, mitochondrial
UniProt Comments for MRPL41	Component of the mitochondrial ribosome large subunit (PubMed:25278503, PubMed:25838379). Also involved in apoptosis and cell cycle (PubMed:16024796, PubMed:16256947). Enhances p53/TP53 stability, thereby contributing to p53/TP53-induced apoptosis in response to growth-inhibitory condition. Enhances p53/TP53 translocation to the mitochondria. Has the ability to arrest the cell cycle at the G1 phase, possibly by stabilizing the CDKN1A and CDKN1B (p27Kip1) proteins (PubMed:16024796).
Research Articles on MRPL41	**1.** Nuclear-encoded mitochondrial MTO1 and MRPL41 are regulated in an opposite epigenetic mode based on estrogen receptor status in breast cancer.
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