28s Ribosomal Protein S18c, Mitochondrial (MRPS18C) Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	28S ribosomal protein S18c, mitochondrial (MRPS18C), Recombinant Protein
Full Product Name	Recombinant Human 28S ribosomal protein S18c, mitochondrial (MRPS18C) , partial
Product Gene Name	MRPS18C recombinant protein
Product Synonym Gene Name	MRPS18C
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	15,850 Da
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	611983
3D Structure	ModBase 3D Structure for Q9Y3D5
Species	Human
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for MRPS18C 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 28S subunit protein that belongs to the ribosomal protein S18P family. The encoded protein is one of three that has significant sequence similarity to bacterial S18 proteins. The primary sequences of the three human mitochondrial S18 proteins are no more closely related to each other than they are to the prokaryotic S18 proteins. Pseudogenes corresponding to this gene are found on chromosomes 8p, 12p, 15q, and 22q.
Other Notes	Small volumes of MRPS18C 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 MRPS18C purchase	MBS1478683 is a recombinant protein targeting MRPS18C. Also known as Recombinant Human 28S ribosomal protein S18c, mitochondrial (MRPS18C) , partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MRPS18C. It may not necessarily be applicable to this product.

NCBI GI #	663071184

NCBI GeneID	51023
NCBI Accession #	NP_001284698.1
UniProt Primary Accession #	Q9Y3D5
UniProt Related Accession #	Q9Y3D5
GenBank Nucleotide #	NM_001297769.1
NCBI Official Full Name	28S ribosomal protein S18c, mitochondrial isoform 3
NCBI Official Synonym Full Names	mitochondrial ribosomal protein S18C
NCBI Official Symbol	MRPS18C
NCBI Official Synonym Symbols	CGI-134; S18mt-c; MRPS18-1; mrps18-c; MRP-S18-1; MRP-S18-c
UniProt Protein Name	28S ribosomal protein S18c, mitochondrial
UniProt Synonym Protein Names	28S ribosomal protein S18-1, mitochondrial; MRP-S18-1; Mitochondrial small ribosomal subunit protein bS18c
Protein Family	28S ribosomal protein
UniProt Gene Name	MRPS18C
UniProt Synonym Gene Names	MRP-S18-c; Mrps18-c; S18mt-c; MRP-S18-1
NCBI Protein Information	28S ribosomal protein S18c, mitochondrial
UniProt Comments for MRPS18C	MiscellaneousThere are 3 mitochondrial isoforms of bS18 in mammalia, localizing to 3 distinct sites in the mitoribosome. bS18m (bs18c, this protein) binds to the same site as bacterial bS18, mS40 (bS18b) binds to a novel location of the 28S small subunit, and mL66 (bS18a) binds to the 39S large subunit.
Research Articles on MRPS18C	**1.** Overexpression of MRPS18C gene (that encode for bS18m protein) suppressed the molecular defects produced by this mtDNA mutation, recovering the complex I activity and reducing the reactive oxygen species produced by this complex to normal levels.
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.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/recombinant-protein/28s-ribosomal-protein-s18c-mitochondrial-mrps18c/1478683