28s Ribosomal Protein S27, Mitochondrial (MRPS27) Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	28S ribosomal protein S27, mitochondrial (MRPS27), Recombinant Protein
Full Product Name	Recombinant Human 28S ribosomal protein S27, mitochondrial (MRPS27)
Product Gene Name	MRPS27 recombinant protein
Product Synonym Gene Name	MRPS27
Sequence	MAASIVRRGM LLARQVVLPQ LSPAGKRYLL SSAYVDSHKW EAREKEHYCL ADLASLMDKT FERKLPVSSL TISRLIDNIS SREEIDHAEY YLYKFRHSPN CWYLRNWTIH TWIRQCLKYD AQDKALYTLV NKVQYGIFPD NFTFNLLMDS FIKKENYKDA LSVVFEVMMQ EAFEVPSTQL LSLYVLFHCL AKKTDFSWEE ERNFGASLLL PGLKQKNSVG FSSQLYGYAL LGKVELQQGL RAVYHNMPLI WKPGYLDRAL QVMEKVAASP EDIKLCREAL DVLGAVLKAL TSADGASEEQ SQNDEDNQGS EKLVEQLDIE ETEQSKLPQY LERFKALHSK LQALGKIESE GLLSLTTQLV KEKLSTCEAE DIATYEQNLQ QWHLDLVQLI QREQQQREQA KQEYQAQKAA KASA
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	49,150 Da
Sequence Positions	1-414, 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	611989
3D Structure	ModBase 3D Structure for Q92552
Species	Human
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for MRPS27 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 may be a functional partner of the death associated protein 3 (DAP3).
Other Notes	Small volumes of MRPS27 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 MRPS27 purchase	MBS1345549 is a recombinant protein targeting MRPS27. Also known as Recombinant Human 28S ribosomal protein S27, mitochondrial (MRPS27). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MRPS27. It may not necessarily be applicable to this product.

NCBI GI #	557948093
NCBI GeneID	23107
NCBI Accession #	NP_001273677.1
UniProt Primary Accession #	Q92552
UniProt Secondary Accession #	Q6P1S1; B4DRT2
UniProt Related Accession #	Q92552
GenBank Nucleotide #	NM_001286748.1
NCBI Official Full Name	28S ribosomal protein S27, mitochondrial isoform 1
NCBI Official Synonym Full Names	mitochondrial ribosomal protein S27
NCBI Official Symbol	MRPS27
NCBI Official Synonym Symbols	S27mt; MRP-S27
UniProt Protein Name	28S ribosomal protein S27, mitochondrial
UniProt Synonym Protein Names	Mitochondrial ribosomal protein S27
Protein Family	28S ribosomal protein
UniProt Gene Name	MRPS27
UniProt Synonym Gene Names	MRP-S27; S27mt
NCBI Protein Information	28S ribosomal protein S27, mitochondrial
NCBI Summary for MRPS27	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 may be a functional partner of the death associated protein 3 (DAP3). Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Nov 2013]
UniProt Comments for MRPS27	RNA-binding component of the mitochondrial small ribosomal subunit (mt-SSU) that plays a role in mitochondrial protein synthesis (PubMed:22841715). Stimulates mitochondrial mRNA translation of subunit components of the mitochondrial electron transport chain (PubMed:22841715). Binds to the mitochondrial 12S rRNA (12S mt-rRNA) and tRNA(Glu) (PubMed:22841715). Involved also in positive regulation of cell proliferation and tumor cell growth (PubMed:28714366).
Research Articles on MRPS27	**1.** we verified for the first time that mitochondrial ribosomal protein S23 expression was upregulated in hepatocellular carcinoma. High mitochondrial ribosomal protein S23 levels can predict poor clinical outcomes in hepatocellular carcinoma, and this protein plays a key role in tumor proliferation. Therefore, mitochondrial ribosomal protein S23 may be a potential therapeutic target for hepatocellular carcinoma.
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-s27-mitochondrial-mrps27/1345549