Ribosome-Releasing Factor 2, Mitochondrial (GFM2) Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	Ribosome-releasing factor 2, mitochondrial (GFM2), Recombinant Protein
Full Product Name	Recombinant Human Ribosome-releasing factor 2, mitochondrial (GFM2) , partial
Product Gene Name	GFM2 recombinant protein
Product Synonym Gene Name	GFM2
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	57,060 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	606544
3D Structure	ModBase 3D Structure for Q969S9
Species	Human
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for GFM2 recombinant protein	Eukaryotes contain two protein translational systems, one in the cytoplasm and one in the mitochondria. Mitochondrial translation is crucial for maintaining mitochondrial function and mutations in this system lead to a breakdown in the respiratory chain-oxidative phosphorylation system and to impaired maintenance of mitochondrial DNA. This gene encodes one of mitochondrial translation elongation factors. Its role in the regulation of normal mitochondrial function and in different disease states attributed to mitochondrial dysfunction is not known. Alternative splicing results in at least three transcript variants encoding distinct isoforms.
Other Notes	Small volumes of GFM2 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 GFM2 purchase	MBS1423269 is a recombinant protein targeting GFM2. Also known as Recombinant Human Ribosome-releasing factor 2, mitochondrial (GFM2) , partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for GFM2. It may not necessarily be applicable to this product.

NCBI GI #	526479814
NCBI GeneID	84340
NCBI Accession #	NP_001268231.1
UniProt Primary Accession #	Q969S9

UniProt Secondary Accession #	Q8N6D8; Q8WYI0; Q9H6Z1; A0AR28
UniProt Related Accession #	Q969S9
GenBank Nucleotide #	NM_001281302.1
NCBI Official Full Name	ribosome-releasing factor 2, mitochondrial isoform 4
NCBI Official Synonym Full Names	G elongation factor mitochondrial 2
NCBI Official Symbol	GFM2
NCBI Official Synonym Symbols	EFG2; RRF2; MRRF2; hEFG2; MST027; RRF2mt; EF-G2mt; MSTP027; mEF-G 2
UniProt Protein Name	Ribosome-releasing factor 2, mitochondrial
UniProt Synonym Protein Names	Elongation factor G 2, mitochondrial
UniProt Gene Name	GFM2
UniProt Synonym Gene Names	hEFG2
NCBI Protein Information	ribosome-releasing factor 2, mitochondrial
NCBI Summary for GFM2	Eukaryotes contain two protein translational systems, one in the cytoplasm and one in the mitochondria. Mitochondrial translation is crucial for maintaining mitochondrial function and mutations in this system lead to a breakdown in the respiratory chain-oxidative phosphorylation system and to impaired maintenance of mitochondrial DNA. This gene encodes one of the mitochondrial translation elongation factors, which is a GTPase that plays a role at the termination of mitochondrial translation by mediating the disassembly of ribosomes from messenger RNA . Its role in the regulation of normal mitochondrial function and in disease states attributed to mitochondrial dysfunction is not known. Alternative splicing results in multiple transcript variants encoding distinct isoforms. [provided by RefSeq, Jul 2013]
UniProt Comments for GFM2	Mitochondrial GTPase that mediates the disassembly of ribosomes from messenger RNA at the termination of mitochondrial protein biosynthesis. Acts in collaboration with MRRF. GTP hydrolysis follows the ribosome disassembly and probably occurs on the ribosome large subunit. Not involved in the GTP-dependent ribosomal translocation step during translation elongation.
Research Articles on GFM2	**1.** GFM2 mutations could be causative of a phenotype of Leigh syndrome with arthrogryposis multiplex congenita.
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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