Mitochondrial Fission 1 Protein (FIS1) Mouse Recombinant Protein

PRODUCT OVERVIEW

Product Name	Mitochondrial fission 1 protein (Fis1), Recombinant Protein
Full Product Name	Recombinant Mouse Mitochondrial fission 1 protein (Fis1), partial
Product Gene Name	Fis1 recombinant protein
Product Synonym Gene Name	Fis1
Sequence	MEAVLNELVS VEDLKNFERK FQSEQAAGSV SKSTQFEYAW CLVRSKYNED IRRGIVLLEE LLPKGSKEEQ RDYVFYLAVG NYRLKEYEKA LKYVRGLLQT EPQNNQAKEL ERLIDKAMKK DG
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	17,009 Da
Sequence Positions	1-122
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.
3D Structure	ModBase 3D Structure for Q9CQ92
Species	Mouse
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Fis1 recombinant protein	MBS1476142 is a recombinant protein targeting Fis1. Also known as Recombinant Mouse Mitochondrial fission 1 protein (Fis1), partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of Fis1 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Fis1. It may not necessarily be applicable to this product.

NCBI GI #	253735731
NCBI GeneID	66437
NCBI Accession #	NP_001156715.1
UniProt Primary Accession #	Q9CQ92
UniProt Related Accession #	Q9CQ92
GenBank Nucleotide #	NM_001163243.1

NCBI Official Full Name	mitochondrial fission 1 protein isoform 2
NCBI Official Synonym Full Names	fission, mitochondrial 1
NCBI Official Symbol	Fis1
NCBI Official Synonym Symbols	Ttc11; 2010003O14Rik
UniProt Protein Name	Mitochondrial fission 1 protein
UniProt Synonym Protein Names	FIS1 homolog; Tetratricopeptide repeat protein 11; TPR repeat protein 11
Protein Family	Mitochondria fission 1 protein
UniProt Gene Name	Fis1
UniProt Synonym Gene Names	Ttc11; TPR repeat protein 11
NCBI Protein Information	mitochondrial fission 1 protein
UniProt Comments for Fis1	Involved in the fragmentation of the mitochondrial network and its perinuclear clustering. Plays a minor role in the recruitment and association of the fission mediator dynamin-related protein 1 (DNM1L) to the mitochondrial surface and mitochondrial fission. May be not essential for the assembly of functional fission complexes and the subsequent membrane scission event. Can induce cytochrome c release from the mitochondrion to the cytosol, ultimately leading to apoptosis. Also mediates peroxisomal fission.
Research Articles on Fis1	**1.** Our data confirm that FIS1 is a key regulator in pancreatic beta cells, because both glucose-stimulated insulin secretion and mitochondrial dynamics were clearly adapted to precise expression levels of this fission protein.
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