Mitochondrial Dynamic Protein MID49 (SMCR7) Mouse Recombinant Protein

PRODUCT OVERVIEW

Product Name	Mitochondrial dynamic protein MID49 (Smcr7), Recombinant Protein
Full Product Name	Recombinant Mouse Mitochondrial dynamic protein MID49 (Smcr7), partial
Product Gene Name	Smcr7 recombinant protein
Product Synonym Gene Name	Smcr7
Sequence	TLAVKRL IDRATSPPDE DDTKGDSWKE LSLLRATSPQ KPQPPPAAFS QPLATGSPSP SVPVEPTPIH SPTTPKFSTI APLCLTFQER LLAFERKHVI TPEAHVTLAK QLAGDIALEL QAYLRSKFPE LPFGALVPGG PLYDGLQAGT AEHVRLLAPL ELEPGLWSLV PGVDTVAREP RCWAVRRTQL EFHPRGCSPW DRFLVGGYLS SRVLLELLRK ALSASVNWPA IGSLLGCLIW PDVASEELLL KVQHECLEFT LAVLMVVPGA STDDRLLLAW PLEGLASNLW LQDLYPVETA RLRALDDQDA GTRRRLLLLL CGICRGHPAL VRLGWSHLTQ VVLHLGEEEV AWTEEALGER FLQALEFLVG SLEQASLPCH FNPSVNLLGN FREEEIDDIG YVLYSGLQVP ESLF
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	49,624 Da
Sequence Positions	44-454
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 Q5NCS9
Species	Mouse
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Smcr7 recombinant protein	This gene encodes a protein of unknown function. The gene is located within the Smith-Magenis syndrome region on chromosome 17. Alternative splicing of this gene results in multiple transcript variants encoding different isoforms.
Other Notes	Small volumes of Smcr7 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 Smcr7 purchase	MBS1331717 is a recombinant protein targeting Smcr7. Also known as Recombinant Mouse Mitochondrial dynamic protein MID49 (Smcr7), partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Smcr7. It may not necessarily be applicable to this product.

NCBI GI #	57862819
NCBI GeneID	237781

NCBI Accession #	NP_001009927.1
UniProt Primary Accession #	Q5NCS9
UniProt Related Accession #	Q5NCS9
GenBank Nucleotide #	NM_001009927.2
NCBI Official Full Name	mitochondrial dynamics protein MID49
NCBI Official Synonym Full Names	mitochondrial elongation factor 2
NCBI Official Symbol	Mief2
NCBI Official Synonym Symbols	Gm11; Smcr7; AI482195
UniProt Protein Name	Mitochondrial dynamics protein MID49
UniProt Synonym Protein Names	Mitochondrial dynamics protein of 49 kDa homolog; Mitochondrial elongation factor 2; Smith-Magenis syndrome chromosomal region candidate gene 7 protein homolog
UniProt Gene Name	Mief2
UniProt Synonym Gene Names	Gm11; Mid49; Smcr7
NCBI Protein Information	mitochondrial dynamics protein MID49
UniProt Comments for Smcr7	Mitochondrial outer membrane protein which regulates mitochondrial fission. Promotes the recruitment and association of the fission mediator dynamin-related protein 1 (DNM1L) to the mitochondrial surface independently of the mitochondrial fission FIS1 and MFF proteins. Regulates DNM1L GTPase activity.
Research Articles on Smcr7	**1.** MiD51 can suppress Mff-dependent enhancement of Drp1 GTPase activity.
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