Crossover Junction Endonuclease MUS81 (MUS81) Mouse Recombinant Protein

PRODUCT OVERVIEW

Product Name	Crossover junction endonuclease MUS81 (Mus81), Recombinant Protein
Full Product Name	Recombinant Mouse Crossover junction endonuclease MUS81 (Mus81)
Product Gene Name	Mus81 recombinant protein
Product Synonym Gene Name	Mus81
Sequence	MAEPVRLGRK RPLPVCPNPL FVRWLTEWRD EAASRGRHTR FVFQKALRSL QRYPLPLRSG KEAKILQHFG DRLCRMLDEK LKQHLASGGD HAPSSPSGKK GASKGPPEQV QDSSMPVPTQ PQAGSTSVGY WPAQNSGARE ILLQLYREHL NSDGHSFLTK EELLQKCAQK TPRVVPGSSK PWPALRSLLH RNLILGTHRP ARYALTPEGL ELAQKLAEAE GLSTRHAGFR PEEHHGEDSA VPEALSEPGT TEGAVQQRPL ELRPSEYRVL LCVDIGETRG AGHRPEMLRE LQRLRVPHTV RKLHVGDFVW VAQETRPRDP ERPGELVLDH IVERKRLDDL CSSIIDGRFR EQKFRLKRCG LGHRVYLVEE HGSVHNLSLP ESTLLQAVTN TQVIDGFFVK RTMDIKESAG YLALLTKGLE RLYQGHTLRS RPWGAPGAAE SEAKPSTNPL CSLLTFSDFN AEAVKNKAQS VREVFARQLM QVRGLSGEKA AAVVDRYSTP ASLLAAYDAC ATAKEQEMLL STIKCGRLQR NLGPALSRTL YQLYCSHSPL S
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	61,531 Da
Sequence Positions	1-551, 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.
3D Structure	ModBase 3D Structure for Q91ZJ0
Species	Mouse
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Mus81 recombinant protein	MBS1329054 is a recombinant protein targeting Mus81. Also known as Recombinant Mouse Crossover junction endonuclease MUS81 (Mus81). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of Mus81 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 Mus81. It may not necessarily be applicable to this product.

NCBI GI #	170016083
NCBI GeneID	71711
NCBI Accession #	NP_082153.3

UniProt Primary Accession #	Q91ZJ0
UniProt Secondary Accession #	Q8R356
UniProt Related Accession #	Q91ZJ0
GenBank Nucleotide #	NM_027877.4
NCBI Official Full Name	crossover junction endonuclease MUS81
NCBI Official Synonym Full Names	MUS81 structure-specific endonuclease subunit
NCBI Official Symbol	Mus81
NCBI Official Synonym Symbols	AI182501; AW045863; 1200008A18Rik
UniProt Protein Name	Crossover junction endonuclease MUS81
Protein Family	Crossover junction endonuclease
UniProt Gene Name	Mus81
NCBI Protein Information	crossover junction endonuclease MUS81
UniProt Comments for Mus81	Interacts with EME1 and EME2 to form a DNA structure-specific endonuclease with substrate preference for branched DNA structures with a 5'-end at the branch nick. Typical substrates include 3'-flap structures, replication forks and nicked Holliday junctions. May be required in mitosis for the processing of stalled or collapsed replication forks.
Research Articles on Mus81	**1.** this study shows that immune rejection of prostate cancer cells relies on Mus81 and STING
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