Modification Methylase Mjai (mjaIM) Methanocaldococcus Jannaschii Recombinant Protein

PRODUCT OVERVIEW

Product Name	Modification methylase MjaI (mjaIM), Recombinant Protein
Full Product Name	Recombinant Methanocaldococcus jannaschii Modification methylase MjaI (mjaIM)
Product Gene Name	mjaIM recombinant protein
Product Synonym Gene Name	mjaIM; MJ0985
Product Synonym Names	Modification methylase MjaI; M.MjaI; EC=2.1.1.113; N-4 cytosine-specific methyltransferase MjaI
Sequence	MMSIDITTNH KIIFGDARKM DEIEDESVHL VVTSPPYPMI EMWDELFKML NLEINKRWME MENEEDEEKK EKLIMQIYNL MHQTLYPVWE EVYRVLVPGG IACINIGDAT RKINGVFRLF PNHSKIIENF EKIGFVTLPY ILWKKPSNKP NAFLGSGFLP PNAYVTLDVE YILIFRKGKP RKFKPKDPLR YASAYTKEER DRWFSQIWEI VGDKQTHPKI ERRTASFPEE IPRRLIRMFS IIGDTVLDPF LGTGTTVKAA IELKRNSIGY EIDKSLKPII EEKIGIKQKR IGMDFNVEFI NRG
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	35,518 Da
Sequence Positions	1-303aa; 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 Q58392
Species	Methanocaldococcus jannaschii (strain 43067 / DSM 2661 / JAL-1 / JCM 10045 / NBRC 100440) (Methanococcus jannaschii)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for mjaIM recombinant protein	MBS1332209 is a recombinant protein targeting mjaIM. Also known as Recombinant Methanocaldococcus jannaschii Modification methylase MjaI (mjaIM). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of mjaIM 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 mjaIM. It may not necessarily be applicable to this product.

NCBI GI #	15669175
NCBI GeneID	1451883
NCBI Accession #	NP_247980.1

UniProt Primary Accession #	Q58392
UniProt Related Accession #	Q58392
GenBank Nucleotide #	NC_000909.1
NCBI Official Full Name	type II R/M system modification methyltransferase
NCBI Official Symbol	MJ_0985
UniProt Protein Name	Modification methylase MjaI
UniProt Synonym Protein Names	N-4 cytosine-specific methyltransferase MjaI
Protein Family	Modification methylase
UniProt Gene Name	mjaIM
UniProt Synonym Gene Names	M.MjaI
UniProt Entry Name	MTM1_METJA
NCBI Protein Information	type II R/M system modification methyltransferase
UniProt Comments for mjaIM	This methylase recognizes the double-stranded sequence CTAG, causes specific methylation on C-1 on both strands, and protects the DNA from cleavage by the MjaI endonuclease.
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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