Formamidopyrimidine-DNA Glycosylase (mutM) Prochlorococcus Marinus Recombinant Protein

PRODUCT OVERVIEW

Product Name	Formamidopyrimidine-DNA glycosylase (mutM), Recombinant Protein
Full Product Name	Recombinant Prochlorococcus marinus Formamidopyrimidine-DNA glycosylase (mutM)
Product Gene Name	mutM recombinant protein
Product Synonym Gene Name	mutM
Sequence	PELPEVETVR RGLEQKLNNF IIKKVEVCRN STVAFPTEKE EFIKGLQNSL LYKWDRRGKY LIAELKKIEN ENIKFPLKKL RQNNGFLVVH LRMTGYFKFI DNSTQPCKHT RIRVFDKKNN ELRYIDVRSF GQMWWIKEGL SPNKIIKGLG SLGPEPFSKN FDEKYLKKVI SKRKKSIKAI LLDQTIVAGI GNIYADESLY SAGISPFRAA KTIKKNELIN LKESIVNVLK KSIGSGGTTF SDFRDLEGEN GNFGLQTNVY RRTGKECRKC GNLIEKQKIA GRSTHWCPNC QK
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	33,741 Da
Sequence Positions	2-293, 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 Q31CK0
Species	Prochlorococcus marinus (strain MIT 9312)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for mutM recombinant protein	MBS1339134 is a recombinant protein targeting mutM. Also known as Recombinant Prochlorococcus marinus Formamidopyrimidine-DNA glycosylase (mutM). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of mutM 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 mutM. It may not necessarily be applicable to this product.

NCBI GI #	499695161
NCBI Accession #	WP_011375895.1
UniProt Primary Accession #	Q31CK0
GenBank Nucleotide #	WP_011375895.1

NCBI Official Full Name	formamidopyrimidine-DNA glycosylase
UniProt Protein Name	Formamidopyrimidine-DNA glycosylase
UniProt Synonym Protein Names	DNA-(apurinic or apyrimidinic site) lyase MutM
UniProt Gene Name	mutM
UniProt Synonym Gene Names	Fapy-DNA glycosylase; AP lyase MutM
UniProt Comments for mutM	Involved in base excision repair of DNA damaged by oxidation or by mutagenic agents. Acts as DNA glycosylase that recognizes and removes damaged bases. Has a preference for oxidized purines, such as 7,8-dihydro-8-oxoguanine (8-oxoG). Has AP (apurinic/apyrimidinic) lyase activity and introduces nicks in the DNA strand. Cleaves the DNA backbone by beta-delta elimination to generate a single-strand break at the site of the removed base with both 3'- and 5'-phosphates.
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