# Formamidopyrimidine-DNA Glycosylase (mutM) Corynebacterium Glutamicum Recombinant Protein

## PRODUCT OVERVIEW

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| **Product Name** | Formamidopyrimidine-DNA glycosylase (mutM), Recombinant Protein |
| **Full Product Name** | Recombinant Corynebacterium glutamicum Formamidopyrimidine-DNA glycosylase (mutM) |
| **Product Gene Name** | mutM recombinant protein |
| **Product Synonym Gene Name** | mutM |
| **Sequence** | PELPEVEVVR RGLEDHMVGH TIVSATVLHP RAARNQLGGG PEIEANIAGL RVSAAKRRGK FLWLELIDAP SGETRPDLGL LVHLGMSGQM LIKEPDAPIS PHLRAKVELD NGDEVWFVDQ RTFGYWWLGD LVDGVPERVS HIATDVLDES ADFSAIARNL KSRKSEIKRL LLNQEIVSGI GNIYADEMLW QAKIHPLQRA DRLSLARLEE LLQAGKDVMT KALAQGGTSF DALYVNVNGN SGYFALSLNA YAQTGEPCGR CGTLIIRESF MNRGSHYCPN CQKRR |
| **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** | 31,648 Da |
| **Sequence Positions** | 2-286, 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 Q8NNV7 |
| **Species** | Corynebacterium glutamicum (strain 13032 / DSM 20300 / JCM 1318 / LMG 3730 / NCIMB 10025) |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Related Product Information for mutM recombinant protein** | MBS1282517 is a recombinant protein targeting mutM. Also known as Recombinant Corynebacterium glutamicum 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.

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| **NCBI GI #** | 19553271 |
| **NCBI GeneID** | 1020025 |
| **NCBI Accession #** | NP_601273.1 |
| **UniProt Primary Accession #** | Q8NNV7 |

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| **UniProt Related Accession #** | Q8NNV7 |
| **GenBank Nucleotide #** | NC_003450.3 |
| **NCBI Official Full Name** | formamidopyrimidine-DNA glycosylase |
| **NCBI Official Symbol** | NCgl1993 |
| **NCBI Official Synonym Symbols** | Cgl2073 |
| **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 |
| **NCBI Protein Information** | formamidopyrimidine-DNA glycosylase |
| **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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