# DNA Mismatch Repair Protein Muts (mutS) Thermus Thermophilus Recombinant Protein

## PRODUCT OVERVIEW

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| **Product Name** | DNA mismatch repair protein MutS (mutS), Recombinant Protein |
| **Full Product Name** | Recombinant Thermus thermophilus DNA mismatch repair protein MutS (mutS), partial |
| **Product Gene Name** | mutS recombinant protein |
| **Product Synonym Gene Name** | mutS |
| **Sequence** | ASLKALEVFE PLRGQDTLFG VLDETRTAPG RRLLQAWLRH PLLERGPLEA RLDRVERFVR EGALREGVRR LLFRLADLER LATRLELSRA SPRDLAALRR SLEILPELKG LLGEEVGLPD LSGLLEELRA ALVEDPPLKV SEGGLIREGY DPDLDALRRA HAEGVAYFLD LEAREKERTG IPTLKVGYNA VFGYYLEVTR PYYEKVPQEY RPVQTLKDRQ RYTLPEMKER ERELYRLEAL IKRREEEVFL ALRERARKEA EALREAARIL AELDVYAALA EVAVRHGYTR PRFGERLRIR AGRHPVVERR |
| **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** | 91,381 Da |
| **Sequence Positions** | 263-572. Partial, including the DNA-binding region. |
| **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 Q56239 |
| **Species** | Thermus thermophilus (strain HB8 / 27634 / DSM 579) |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Related Product Information for mutS recombinant protein** | MBS1343279 is a recombinant protein targeting mutS. Also known as Recombinant Thermus thermophilus DNA mismatch repair protein MutS (mutS), partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell. |
| **Other Notes** | Small volumes of mutS 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 mutS. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 499547814 |
| **NCBI GeneID** | 3168860 |
| **NCBI Accession #** | WP_011228597.1 |
| **UniProt Primary Accession #** | Q56239 |
| **UniProt Secondary Accession #** | Q5SIP5 |

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| **UniProt Related Accession #** | Q56239 |
| **GenBank Nucleotide #** | WP_011228597.1 |
| **NCBI Official Full Name** | DNA mismatch repair protein MutS |
| **NCBI Official Symbol** | TTHA1324 |
| **UniProt Protein Name** | DNA mismatch repair protein MutS |
| **Protein Family** | DNA mismatch repair protein |
| **UniProt Gene Name** | mutS |
| **NCBI Protein Information** | DNA mismatch repair protein MutS |
| **UniProt Comments for mutS** | This protein is involved in the repair of mismatches in DNA. It is possible that it carries out the mismatch recognition step. Binds double-stranded DNA. |
| **Research Articles on mutS** | **1.** ATP hydrolysis by MutS and MutL is involved in the mismatch-dependent activation of MutL endonuclease activity. |
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