G/U Mismatch-Specific DNA Glycosylase (mug) Escherichia Coli Recombinant Protein

PRODUCT OVERVIEW

Product Name	G/U mismatch-specific DNA glycosylase (mug), Recombinant Protein
Full Product Name	Recombinant Escherichia coli G/U mismatch-specific DNA glycosylase (mug)
Product Gene Name	mug recombinant protein
Product Synonym Gene Name	mug
Sequence	MVEDILAPGL RVVFCGINPG LSSAGTGFPF AHPANRFWKV IYQAGFTDRQ LKPQEAQHLL DYRCGVTKLV DRPTVQANEV SKQELHAGGR KLIEKIEDYQ PQALAILGKQ AYEQGFSQRG AQWGKQTLTI GSTQIWVLPN PSGLSRVSLE KLVEAYRELD QALVVRGR
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	18,673 Da
Sequence Positions	1-168, 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 Q1R6R1
Species	Escherichia coli (strain UTI89 / UPEC)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for mug recombinant protein	MBS1348508 is a recombinant protein targeting mug. Also known as Recombinant Escherichia coli G/U mismatch-specific DNA glycosylase (mug). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of mug 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 mug. It may not necessarily be applicable to this product.

NCBI GI #	446151082
NCBI Accession #	WP_000228937.1
UniProt Primary Accession #	Q1R6R1
GenBank Nucleotide #	WP_000228937.1
NCBI Official Full Name	MULTISPECIES: mismatch-specific DNA-glycosylase
UniProt Protein Name	G/U mismatch-specific DNA glycosylase

UniProt Synonym Protein Names	Double-strand-specific uracil glycosylase
Protein Family	G/U mismatch-specific DNA glycosylase
UniProt Gene Name	mug
UniProt Synonym Gene Names	MUG
UniProt Comments for mug	Excises ethenocytosine and uracil, which can arise by alkylation or deamination of cytosine, respectively, from the corresponding mispairs with guanine in ds-DNA. It is capable of hydrolyzing the carbon-nitrogen bond between the sugar-phosphate backbone of the DNA and the mispaired base. The complementary strand guanine functions in substrate recognition. Required for DNA damage lesion repair in stationary-phase cells.
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