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32-2571: MUG Recombinant Protein

Alternative Name xanthine DNA glycosylase,dug,ECK3058,IW3040,ygjF,G/U mismatch-specific DNA glycosylase,Doublestrand-specific uracil glycosylase, Mismatch-specific uracil DNA-glycosylase, mug.

Description

Source: E.coli. MUG Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 191 amino acids (1-168) and having a molecular mass of 21.1kDa. MUG is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques. G/U mismatch-specific DNA glycosylase (mug) is a part of the TDG/mug DNA glycosylase family. Mug is necessary for DNA damage lesion repair in stationary-phase cells. Mug protein removes three N4ethenocytosine and takes away s the uracil base from mismatches in the order of U:G>U:A. The enzyme Uracil-N-Glycosylase removes uracil from the DNA leaving an AP position. Mug is also able to hydrolyzing the carbon-nitrogen bond among the sugar-phosphate backbone of the DNA and the mispaired base. The complementary strand guanine plays a role in substrate recognition.

Product Info

Amount: 10 µg

Purification: Greater than 90% as determined by SDS-PAGE.

The MUG solution (0.5mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.1M NaCl and 20% Content:

glycerol.

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods Storage condition:

of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or

BSA). Avoid multiple freeze-thaw cycles.

Amino Acid: MGSSHHHHHH SSGLVPRGSH MGSMVEDILA PGLRVVFCGI NPGLSSAGTG FPFAHPANRF WKVIYQAGFT

DROLKPOEAO HLLDYRCGVT KLVDRPTVOA NEVSKOELHA GGRKLIEKIE DYOPOALAIL GKOAYEOGFS

QRGAQWGKQT LTIGSTQIWV LPNPSGLSRV SLEKLVEAYR ELDQALVVRG R.

