

## G/U Mismatch-Specific DNA Glycosylase from E.coli, Recombinant

Cat. No. NATE-1911

Lot. No. (See product label)

## Introduction

**Description** 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 stationaryphase cells. Mug protein removes three N4-ethenocytosine 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.

**Synonyms** Xanthine DNA glycosylase; dug; ECK3058; JW3040; ygjF; G/U mismatch-specific

DNA glycosylase; Double-strand-specific uracil glycosylase; Mismatch-specific uracil

DNA-glycosylase; mug

## **Product Information**

**Species** E.coli

**Source** E.coli

**Form** Sterile Filtered colorless solution.

**Formulation** The MUG solution (0.5mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.1M NaCl

and 20% glycerol.

**EC Number** EC 3.2.2.28

Molecular Weight 21.1 kDa

**Purity** Greater than 90% as determined by SDS-PAGE.

## Storage and Shipping Information

**Stability** Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for

longer periods of time. For long term storage it is recommended to add a carrier

1/1

protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

**Tel:** 1-631-562-8517 1-516-512-3133 **Email:** info@creative-enzymes.com