

double-stranded uracil-DNA glycosylase

Cat. No. EXWM-3982

Lot. No. (See product label)

Introduction

Description

No activity on DNA containing a T/G mispair or single-stranded DNA containing either a site-specific uracil or 3,N4-ethenocytosine residue, significant role for double-stranded uracil-DNA glycosylase in mutation avoidance in non-dividing E. coli. Uracil-DNA glycosylases are widespread enzymes that are found in all living organisms. Uracil-DNA glycosylase (EC 3.2.2.27) and EC 3.2.2.28 form a central part of the DNA-repair machinery since they initiate the DNA base-excision repair pathway by hydrolysing the N-glycosidic bond between uracil and the deoxyribose sugar thereby catalysing the removal of mis-incorporated uracil from DNA.

Synonyms

Mug; double-strand uracil-DNA glycosylase; Dug; dsUDG; double-stranded DNA specific UDG; dsDNA specific UDG; UdgB (ambiguous); G:T/U mismatch-specific DNA glycosylase; UDG (ambiguous)

Product Information

Form

Liquid or lyophilized powder

EC Number

EC 3.2.2.28

Reaction

Specifically hydrolyses mismatched double-stranded DNA and polynucleotides, releasing free uracil

Notes

This item requires custom production and lead time is between 5-9 weeks. We can custom produce according to your specifications.

Storage and Shipping Information

Storage

Store it at +4 °C for short term. For long term storage, store it at -20 °C~-80 °C.