

Uracil DNA Glycosylase Active Protein | UNG active protein

Uracil DNA Glycosylase

CATALOG # AAA38290	HOST Escherichia Coli strain that carries the UNG gene from E Coli
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PRODUCT SYNONYMS

Uracil DNA Glycosylase; UNG; Uracil DNA Glycosilase; UNG active protein

PRODUCT SPECIFICATIONS

Host	Escherichia Coli strain that carries the UNG gene from E Coli
Form/Format	UNG solution in 10mM Tris-Hcl (pH-7.4 at 25 degree C), 50mM KCl, 1mM DTT, 0.1mM EDTA, 0.1 mg/ml BSA and 50% glycerol. Sterile Filtered colorless solution.
Sequence Length	304
10X UNG Reaction Buffer	200mM Tris-HCl (pH 8.0 at 25 degree C), 10mM DTT and 10mM EDTA.
Inhibition and Inactivation	Inactivated by heating at 95 degree C for 10min. Enzye activity is partially restored at temperatures lower than 55 degree C.
Reaction Conditions	1X UNG Reaction Buffer, incubate at 37 degree C. UNG is active over a broad pH rabge with an optimum at pH-8.0, doesn't require divalent cation, and is inhibited by high ionic strength (>200mM). The abasic sites formed in DNA by UNG may be cleaved by heat, alkali-treatment or endonucleases that cleave specifically at abasic sites.
Unit Defenition	1 Unit of the enzyme catalyzes the release of 1 nanomole of uracil-containing DNA template in 60 min at 37 degree C.
Specific Activity	The Specific Activity was found to be 5U/ ul.
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Preparation and Storage	Uracil DNA Glycosilase although stable at 15 degree C for 1 week, should be stored desiccated below -18 degree C. Please prevent freeze-thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for UNG active protein	Description: E Coli Uracil DNA Glycosilase (UNG) catalyses the release of free Uracil from Uracil-containing DNA. UNG efficiently hydrolyzes uracil from signle-stranded or double-stranded DNA, but not from oligomers (6 fewer bases).
Product Categories/Family for UNG active protein	Enzymes ; Glycosylase

NCBI AND UNIPROT INFORMATION

NCBI GI #	74748540
NCBI Official Full Name	Uracil-DNA glycosylase
UniProt Protein Name	Uracil-DNA glycosylase

UniProt Gene Name	UNG
UniProt Entry Name	Q6FHS8_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/escherichia-coli-strain-that-carries-the-ung-gene-from-e-coli-ung-active-protein/uracil-dna-glycosylase/38290>