

Active Recombinant E. coli Uracil DNA Glycosylase

Cat. No. ung-61E Lot. No. (See product label)

SPECIFICATION

Product Overview	A recombinant E. coli strain carrying the Uracil DNA Glycosylase gene from E. coli K-12.
Species	E.coli
Source	E.coli
Description	Uracil-DNA Glycosylase catalyzes the hydrolysis of the N-glycosylic bond between the uracil and sugar, leaving an abasic site in uracil-containing single or double-stranded DNA. The enzyme shows no measurable activity on short oligonucleotides (<6 bases),="" or="" rna="">
Bio-activity	77,000 U/mg
Molecular Mass	25,693 Daltons
Purity	>99% by SDS-PAGE
Unit Definition	1 unit is defined as the amount of enzyme that catalyzes the release of 1.8 nmol of Uracil in 30 minutes from double-stranded, tritiated, Uracil containing-DNA at 37°C in 1X UDG Reaction Buffer.
Storage	-15 to -25°C
Concentration	2,000 U/ml

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Storage Buffer

Supplied in: 10mM Tris-HCl, 50mM NaCl, 1mM DTT, 0.1mM EDTA, 50% glycerol pH 7.5 @ 25°C. Supplied with: 10X UDG Reaction Buffer: 200mM Tris-HCl, 10mM DTT, 10mM EDTA pH 8.0 @ 25°C.

GENE INFORMATION

Gene Name	ung uracil-DNA-glycosylase [<i>Escherichia coli</i> str. K-12 substr. MG1655]
Official Symbol	ung
Synonyms	ung; uracil-DNA-glycosylase; ECK2578; JW2564; NP_417075.1; EC 3.2.2.-
Gene ID	947067
Protein Refseq	NP_417075
Pathway	Base excision repair,

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