

HelixZyme™ Uracil-DNA Glycosylase (UDG)

Kit Contents

HelixZyme™ Uracil-DNA Glycosylase (UDG)				
Cat. No.	UDG250 (250units)	UDG1000 (1,000units)	UDG5000 (5,000units)	BUDG (Bulk type)
Uracil-DNA Glycosylase (1unit/μl)	0.25ml	1ml	1ml x 5ea	Customized
Instructions for Use	1ea	1ea	1ea	1ea

Description

NanoHelix **Uracil-DNA Glycosylase (UDG)**, also known as UNG, is an engineered *E. coli* enzyme catalyzing the hydrolysis of N-glycosidic bond between the uracil and sugar, leaving an apyrimidinic site in uracil-containing single or double-stranded DNA. This enzyme has been engineered to be more susceptible to high-temperature and inactivated easily during the dUTP containing PCR or real-time PCR. The wild-type of *E. coli* UDG is resistant to thermal inactivation. Uracil-DNA Glycosylase activation occurs as the first step of PCR at a 20~50°C and inactivation occurs at 95°C. For PCR diagnosis, UDG can be used for efficient removal of carryover contaminated uracil-containing DNA.

Storage buffer

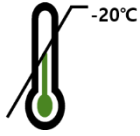
20mM Tris-HCl (pH 8.0), 1mM EDTA, 50mM NaCl, 1mM DTT, 0.1mg/ml BSA, 50% Glycerol

Quality control

By NanoHelix's ISO 13485-certified Quality Management System, each lot of **HelixZyme™ Uracil-DNA Glycosylase (UDG)** was tested against predetermined specifications to ensure consistent product quality.

Uracil-DNA Glycosylase (UDG)

Storage



Store below -20°C

Shelf life



12 months

Concentration

1unit/μl

Products

Cat. No.	Products	Size
UDG250	HelixZyme™ Uracil-DNA Glycosylase (UDG)	250units
UDG1000	HelixZyme™ Uracil-DNA Glycosylase (UDG)	1,000units
UDG5000	HelixZyme™ Uracil-DNA Glycosylase (UDG)	5,000units
BUDG	HelixZyme™ Uracil-DNA Glycosylase (UDG), Bulk type	Customized