Creative Enzymes®

Uracil-DNA Glycosylase from Psychrophilic marine bacterium, Recombinant

Cat. No. COV-001

Lot. No. (See product label)

Introduction

Description	UDG (Uracil-DNA Glycosylase) catalyses and hydrolyses uracil base and N- glycosidic bond of the sugar phosphate skeleton which belong to single or double-stranded DNA containing dU. Thus, free uracils are released and the base-free sites are dissociated easily by hydrolysis. Heat-labile UDG steming from psychrophilic marine bacterium, is sensitive to high temperature and therefore inactivates enzymes irreversibly when temperature over 50°C, which is suitable for PCR/QPCR, RT- PCR /RT-QPCR system.

Product Information

Species	Psychrophilic marine bacterium
Source	E. coli
Form	Liquid
Activity	≥200,000 U/mg
Concentration	1u/ul
Buffer	20 mM Tris-HCl, pH 8.0@ 25°C 0.1 mM EDTA 100 mM KCl 1 mM DTT 50% Glycerol (v/v) 0.5% NP-40 (v/v) 0.5% Tween-20 (v/v)
Unit Definition	One unit (U) is defined as the amount of enzyme that releases 1 nmol of uracils from the DNA strand (containing dU) within 1 hour at 37°C in the reaction system containing 70 mM of Tris - HCl, pH 7.5, 10 mM of NaCl, 1 mM of EDTA, 100 μg/ml of BSA reaction liquid.

Storage and Shipping Information

Storage	Store at -20 °C