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Datasheet for ABIN1068292 **UNG Protein**



Overview	
Quantity:	10000 U
Target:	UNG
Origin:	E. coli
Source:	Escherichia coli (E. coli)
Biological Activity:	Active
Product Details	
Characteristics:	10x UNG Reaction Buffer: 200mM Tris-HCl (pH 8.0 at 25°C), 10mM DTT and 10mM EDTA.
Sterility:	Sterile filtered

1 Unit of the enzyme catalyzes the release of 1 nanomole of uracil-containing DNA template in

Target Details

Unit Definition:

Target:	UNG
Alternative Name:	Uracil DNA Glycosylase (UNG Products)
Target Type:	Viral Protein
Background:	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).
Pathways:	DNA Damage Repair, Production of Molecular Mediator of Immune Response

60 min at 37°C.

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Application Details	
Comment:	Specific Activity: The Specific Activity was found to be 5U/µl.
	Reaction Conditions: 1X UNG Reaction Buffer, incubate at 37°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.
	Inhibition and Inactivation: Inactivated by heating at 95°C for 10min. Enzye activity is partially
	restored at temperatures lower than 55°C.
Restrictions:	For Research Use only
Handling	
Buffer:	UNG solution(5U/ul)in 10mM Tris-Hcl (pH-7.4 at 25°C), 50mM KCl, 1mM DTT, 0.1mM EDTA, 0.1
	mg/ml BSA and 50% glycerol.
Storage Comment:	Uracil DNA Glycosilase although stable at 15°C for 1 week, should be stored desiccated below -
	18°C. Please prevent freeze-thaw cycles.