

Datasheet for ABIN7317329 **UNG Protein (GST tag)**



Overview

Quantity:	100 µg
Target:	UNG
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This UNG protein is labelled with GST tag.

Product Details

Purpose:	Recombinant Human Uracil-DNA glycosylase/UNG Protein (GST Tag)
Sequence:	Phe 85-Leu 304
Characteristics:	A DNA sequence encoding the human UNG isoform 1 (P13051-2) (Phe 85-Leu 304) was fused with the GST tag at the N-terminus.
Purity:	> 90 % as determined by reducing SDS-PAGE.

Target Details

Target:	UNG
Alternative Name:	Uracil-DNA glycosylase/UNG (UNG Products)
Target Type:	Viral Protein
Background:	Background: Isoform 1 is widely expressed with the highest expression in skeletal muscle, heart
	and testicles. Isoform 2 has the highest expression levels in tissues containing proliferating
	cells. Uracil-DNA glycosylase exists in two forms: mitochondrial uracil-DNA glycosylase 1

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	(UNG1) and nuclear uracil-DNA glycosylase 2 (UNG2). uracil-DNA glycosylase. This gene
	encodes one of several uracil-DNA glycosylases. One important function of uracil-DNA
	glycosylases is to prevent mutagenesis by eliminating uracil from DNA molecules by cleaving
	the N-glycosylic bond and initiating the base-excision repair (BER) pathway. Uracil bases occur
	from cytosine deamination or misincorporation of dUMP residues. Alternative promoter usage
	and splicing of this gene leads to two different isoforms: the mitochondrial UNG1 and the
	nuclear UNG2. The UNG2 term was used as a previous symbol for the CCNO gene (GeneID
	10309), which has been confused with this gene, in the literature and some databases. Defects
	in UNG are a cause of immunodeficiency with hyper-IgM type 5 (HIGM5). A rare
	immunodeficiency syndrome characterized by normal or elevated serum IgM levels with
	absence of IgG, IgA, and IgE. It results in a profound susceptibility to bacterial infections.
	Synonym: DGU,HIGM4,HIGM5,UDG,UNG1,UNG15,UNG2
Molecular Weight:	52 kDa
Pathways:	DNA Damage Repair, Production of Molecular Mediator of Immune Response
Application Details	
Restrictions:	For Research Use only
Handling	
Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from sterile 40 mM Tris, 0.15M NaCl, 2 mM GSH, pH 7.5
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C.
	Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted
	samples are stable at < -20°C for 3 months.