Recombinant Human UNG protein, His-tagged

Cat. No. UNG-3601H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human UNG(Met1~Leu313) fused with His tag at N-terminal was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Met1~Leu313
Description	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.
Form	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300
Molecular Mass	38.3kDa
Endotoxin	<1.0EU per 1μg (determined by the LAL method)
Purity	> 95%

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Applications	SDS-PAGE; WB; ELISA; IP
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Reconstitution	Reconstitute in PBS or others.

GENE INFORMATION

Gene Name	UNG uracil-DNA glycosylase [Homo sapiens]
Official Symbol	UNG
Synonyms	UNG; uracil-DNA glycosylase; DGU; HIGM4; UDG; UNG1; UNG2; uracil DNA glycosylase 1; uracil DNA glycosylase 2; uracil-DNA glycosylase 1, uracil-DNA glycosylase 2; UNG15; DKFZp781L1143;
Gene ID	7374
mRNA Refseq	NM_003362
Protein Refseq	NP_003353
MIM	191525
UniProt ID	P13051

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Chromosome Location	12q23-q24.1
Pathway	Base excision repair, organism-specific biosystem; Base excision repair, conserved biosystem; Primary immunodeficiency, organism-specific biosystem; Primary immunodeficiency, conserved biosystem;
Function	hydrolase activity, hydrolyzing N-glycosyl compounds; uracil DNA N-glycosylase activity; uracil DNA N-glycosylase activity;

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