

UNG Protein, Human (His)

Cat. No.:	HY-P73562
Synonyms:	Uracil-DNA glycosylase; UDG; DGU; UNG1
Species:	Human
Source:	E. coli
Accession:	P13051-2 (F85-L304)
Gene ID:	7374
Molecular Weight:	Approximately 26 kDa

PROPERTIES

AA Sequence	<p> F G E S W K K H L S G E F G K P Y F I K L M G F V A E E R K H Y T V Y P P P H Q V F T W T Q M C D I K D V K V V I L G Q D P Y H G P N Q A H G L C F S V Q R P V P P P P S L E N I Y K E L S T D I E D F V H P G H G D L S G W A K Q G V L L L N A V L T V R A H Q A N S H K E R G W E Q F T D A V V S W L N Q N S N G L V F L L W G S Y A Q K K G S A I D R K R H H V L Q T A H P S P L S V Y R G F F G C R H F S K T N E L L Q K S G K K P I D W K E L </p>
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 µm filtered solution of 50 mM Tris-HCL, 300 mM NaCl, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	<p>UNG protein, an essential component in DNA repair mechanisms, performs the crucial function of excising uracil residues from DNA strands. These uracil residues may arise from the erroneous incorporation of dUMP residues by DNA polymerase or the deamination of cytosine. By recognizing and removing these uracil lesions, UNG plays a pivotal role in maintaining the integrity of the genetic material, contributing to the fidelity of DNA replication, and preventing the accumulation of mutations that could compromise genomic stability.</p>
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Caution: Product has not been fully validated for medical applications. For research use only.

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