
Product Data Sheet

Product Name: UNG E.Coli
 Cat. No.: GP22388
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	UDG; b2580; JW2564; EC 3.2.2.27; DGU; UNG15; HIGM5; Uracil-DNA Glycosylase 1; EC 3.2.2; HIGM4; UNG2.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MGSMANELTW HDVLAEEKQQ PYFLNTLQTV ASERQSGVTI YPPQKDVFNFRFTELGDVK VVILGQDPYH GPGQAHGLAF SVRPGIAIPP SLLNMYKELE NTIPGFTRPN HGYLESWARQGVLLLNTVLT VRAGQAHSASHA SLGWETFTDK VISLINQHRE GVVFLLWGSH AQKKGAIIDK QRHHVLKAPH PSPLSAHRGF FGCNHFVLANQWLEQRGETP IDWMPVLP AE SE		
Formulation	UNG protein solution (0.5mg/ml) containing 20mM Tris-HCl buffer (pH8.0) and 10% glycerol.		

Introduction

UNG is a member of the Uracil-DNA glycosylase family. One of his functions 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 are formed as a result of cytosine deamination or misincorporation of dUMP residues. After a mutation is formed, the mutagenic threat of uracil propagates through any subsequent DNA replication steps. Among the diseases associated with UNG are: congenital rubella, and immunodeficiency with hyper igm type 4.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

UNG E.Coli Recombinant produced in E.Coli is a single, non-glycosylated polypeptide

Caution: Product has not been fully validated for medical applications. For research use only.

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chain containing 252 amino acids (1-229 a.a) and having a molecular mass of 28.1kDa.

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