

32-2918: UNG Recombinant Protein

Alternative Name : UDG,b2580,JW2564,EC 3.2.2.27, DGU,UNG15,HIGM5,Uracil-DNA Glycosylase 1,EC 3.2.2,HIGM4,UNG2.

Description

Source : Escherichia Coli. UNG E.Coli Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 252 amino acids (1-229 a.a) and having a molecular mass of 28.1kDa. UNG is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques. 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.

Product Info

Amount :	10 µg
Purification :	Greater than 90.0% as determined by SDS-PAGE.
Content :	UNG protein solution (0.5mg/ml) containing 20mM Tris-HCl buffer (pH8.0) and 10% glycerol.
Storage condition :	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.
Amino Acid :	MGSSHHHHHH SSGLVPRGSH MGSMANELTW HDVLAEEKQQ PYFLNTLQTV ASERQSGVTI YPPQKDFVNAFRFTELGDVK VVILGQDPYH GPGQAHGLAF SVRPGIAIPP SLLNMYKELE NTIPGFTRPN HGYLESWARQGVLLNLT VLT VRAGQAHSHA SLGWETFTDK VISLINQHRE GVVFLWWSH AQKKGAIIDK QRHHVCLKAPH PSPLSAHRGF FGCNHFVLANQWLEQRGETP IDWMPVLP AE SE