

Recombinant E.coli uracil-DNA-glycosylase, His-tagged

Cat. No. ung-282E **Lot. No.** (See product label)

SPECIFICATION

Product Overview	ung, 1-229aa, E.coli, His tag, E.coli
Species	E.coli
Source	E.coli
ProteinLength	1-229 a.a.
Description	Ung, also known as Uracil-DNA glycosylase, 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. After a mutation occurs, the mutagenic threat of uracil propagates through any subsequent DNA replication steps. Recombinant E.coli ung protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography.
Form	Liquid. 20mM Tris-HCl buffer (pH8.0) containing 10% glycerol
Molecular Mass	28.1 kDa(252aa) confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSMANELTW HDVLAEEKQQ PYFLNTLQTV ASERQSGVTI YPPQKDVFNA FRFTELGDVK VVILGQDPYH GPGQAHGLAF SVRPGIAIPP SLLNMYKELE NTIPGFTRPN HGYLESWARQ GVLLNNTVLT VRAGQAHA SHA SLGWETFTDK VISLINQHRE GVVFLWWSH AQKKGAIDK QRHHVLKAPH PSPLSAHRGF FGCNHFVLN QWLEQRGETP IDWMPVLP AE SE

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Purity	>90% by SDS - PAGE
Storage	Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.
Concentration	0.5 mg/ml (determined by Bradford assay)
GENE INFORMATION	
Gene Name	ung?uracil-DNA-glycosylase [?Escherichia coli str. K-12 substr. MG165?]
Official Symbol	ung
Synonyms	ung; ECK2578; JW2564; uracil-DNA-glycosylase; NP_417075.1; EC 3.2.2.-
Gene ID	947067
Protein Refseq	NP_417075
Pathway	Base excision repair