Recombinant E.coli ung protein

Catalog Number: ATGP2365

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-229aa

UniProt No.
P12295

NCBI Accession No.
NP_417075

Alternative Names
Uracil-DNA-glycosylase, ECK2578, JW2564, UDG, UNG1, UNG2, HIGM4

PRODUCT SPECIFICATION

Molecular Weight
28.1 kDa (252aa) confirmed by MALDI-TOF

Concentration
0.5mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol

Purity
> 90% by SDS-PAGE

Tag
His-Tag

Application
SDS-PAGE

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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.

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Amino acid Sequence

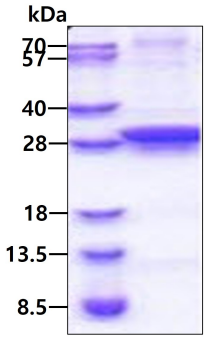
<MGSSHHHHHH SSGLVPRGSH MGS>MANELTW HDVLAEEKQQ PYFLNTLQTV ASERQSGVTI YPPQKDVFNA FRFTELGDVK VVILGQDPYH GPGQAHGLAF SVRPGIAIPP SLLNMYKELE NTIPGFTRPN HGYLESWARQ GVLLLNTVLT VRAGQAHSHA SLGWETFTDK VISLINQHRE GVVFLLWGSH AQKKGAIIDK QRHHVLKAPH PSPLSAHRGF FGCNHFVLAN QWLEQRGETP IDWMPVLPAE SE

General References

Lindahl T. et al. (1977) J Biol Chem. 252 : 3286-3294.
Pearl, L. H. et al. (2000) Mutation research 460 : 165-181.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.