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Recombinant human TDG protein

Catalog Number: ATGP1705

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-410aa

UniProt No.

013569

NCBI Accession No.

AAH37557

Alternative Names

Thymine-DNA glycosylase, G/T mismatch-specific thymine DNA glycosylase,

PRODUCT SPECIFICATION

Molecular Weight

48.4 kDa (433aa)

Concentration

0.5mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.4 urea, 10% glycerol, 0.1M NaCl

Purity

> 85% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE, Denatured

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

Thymine-DNA glycosylase, also known as TDG, belongs to the TDG/mug DNA glycosylase family. TDG is a nuclear protein which corrects G/T mismatches to G/C pairs by hydrolyzing the carbon-nitrogen bond between the sugar-phosphate backbone of the DNA and the mispaired thymin. TDG can also remove uracil and 5-bromouracil from mispairings with guanine. This enzyme plays a central role in cellular defense against genetic mutation caused by the spontaneous deamination of 5-methylcytosine and cytosine. Recombinant human TDG protein, fused to His-tag at N-terminus, was expressed in E. coli



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Amino acid Sequence

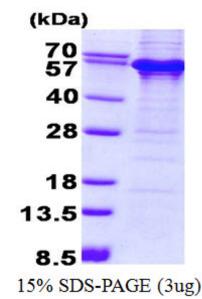
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General References

um S., et al. (1998) J Biol Chem. 273:20728-20736. Hardeland u., et al. (2002) EMBO J. 21:1456-1464.

DATA

SDS-PAGE



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

