

Recombinant human TDP1 protein

Catalog Number: ATGP1950

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-298aa

UniProt No.

Q9BRS7

NCBI Accession No.

AAH06083

Alternative Names

Tyrosyl-DNA phosphodiesterase 1, FLJ11090, SCAN1, Tyr-DNA phosphodiesterase 1, Tyrosyl DNA phosphodiesterase 1, TDP-1

PRODUCT SPECIFICATION

Molecular Weight

35.8 kDa (318aa)

Concentration

1mg/ml (determined by Bradford assay)

Formulation

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

Purity

> 90% 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

Tyrosyl-DNA phosphodiesterase 1, also known as TDP1, is involved in repairing stalled topoisomerase I-DNA complexes by catalyzing the hydrolysis of the phosphodiester bond between the tyrosine residue of topoisomerase I and the 3-prime phosphate of DNA. This protein may also remove glycolate from single-stranded DNA containing 3-prime phosphoglycolate, suggesting a role in repair of free-radical mediated DNA double-strand breaks. Recombinant human TDP1, fused to His-tag at N-terminus, was expressed in E. coli.

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Amino acid Sequence

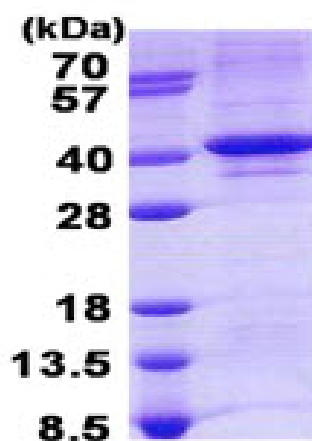
MGSSHHHHHH SSGLVPRGSH MSQEGDYGRW TISSSDESEE EKPKPDKPST SSLLCARQGA ANEPRYTCSE AQKAAHKRKI
SPVKFSNTDS VLPPKRQKSG SQEDLGWCLS SSDDELQPEM PQKQAEKVVI KKEKDISAPN DGTAQRTENH GAPACHRLKE
EEDEYETSGE GQDIWDMLDK GNPQFYLR VSGVKPKYNS GALHIKDILS PLFGTLVSSA QFNCFDVDW LVKQYPPEFR
KKPILLVHGD KREAKAHLHA QAKPYENISL CQAKLDIAFG THHTKMMLLL YEEGLRVVIH TSNLIHADWH QKTQGTHL

General References

Heilig R., et al. (2003) Nature. 421:601-607
The MGC Project Team. (2004) Genome Res. 14:2121-2127

DATA

SDS-PAGE



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

15% SDS-PAGE (3ug)