

# Recombinant human TDP1 protein

Catalog Number: IBATGP1950



## PRODUCT INFORMATION

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### 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

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### 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

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### 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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**For research use only. This product is not intended or approved for human, diagnostics or veterinary use.**

*Manufactured for:*

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## Amino acid Sequence

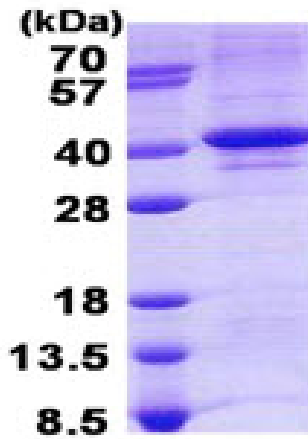
MGSSHHHHHH SSGLVPRGSH MSQEGDYGRW TISSSESEE EKPKPDKPST SLLCARQGA ANEPRYTCSE AQKAAHKRKI  
SPVKFSNTDS VLPPKRQKSG SQEDLGWCLS SSDDELQPEM PQQAEKVVI KKEKDISAPN DGTAQRTEH GAPACHRLKE  
EEDEYETSGE GQDIWMLDK GNPQFYLR VSGVKPKYNS GALHIKDILS PLFGTLVSSA QFNCFDVDW LVKQYPPEFR  
KKPILLVHGD KREAKAHLHA QAKPYENISL CQAKLDIAFG 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)

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