

**AR50774PU-S****Human TDP1 (1-298, His-tag) - Purified****Alternate names:**

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

**Quantity:**

0.1 mg

**Concentration:**

1 mg/ml (determined by Bradford assay)

**Background:**

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.

**Uniprot ID:**[Q9BR5Z](#)**NCBI:**[AAH06083](#)**Species:**

Human

**Source:**

E. coli

**Format:****State:** Liquid purified protein**Purity:** >90% by SDS - PAGE**Buffer System:** 20 mM Tris-HCl buffer (pH 8.0) containing 0.4M urea, 10% glycerol**Description:**

Recombinant human TDP1, fused to His-tag at N-terminus, was expressed in E.coli.

**AA Sequence:**

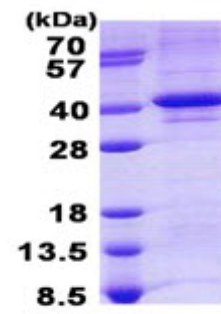
```
MGSSHHHHHH SGLVPRGSH MSQEGDYGRW TISSSESEE EKPKDPKST SLLCARQGA
ANEPRYTCSE AQKAAHKRKI SPVKFSNTDS VLPPKRQKSG SQEDLGWCLS SSDDELQPEM
PQKQAEKVVI KKEKDISAPN DGTAQRTENH GAPACHRLKE EEDEYETSGE GQDIWMLDK
GNPFQFYLTR VSGVKPKYNS GALHIKDILS PLFGLVSSA QFNCFDVDW LVKQYPPEFR
KKPILLVHGD KREAKAHLHA QAKPYENISL CQAKLDIAFG THHTKMMLLL YEEGLRVVIH
TSNLIHADWH QKTQGTHL
```

**Molecular weight:** 35.8 kDa (318aa)**Storage:**

Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.

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

Pictures:



15% SDS-PAGE (3ug)