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## 32-2843: TDP1 Recombinant Protein

**Alternative Name :** Tyrosyl-DNA phosphodiesterase 1,TDP1 protein,TDP1.

### Description

Source : Escherichia Coli. TDP1 Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 318 amino acids (1-298) and having a molecular mass of 35.8kDa. TDP1 is fused to a 20 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques. Tyrosyl-DNA phosphodiesterase 1 ( TDP1) is required for 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. TDP1 also detach glycolate from single-stranded DNA having 3-prime phosphoglycolate, suggesting a role in repair of free-radical mediated DNA double-strand breaks.

### Product Info

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| **Amount :** | 20 µg |
| **Purification :** | Greater than 90.0% as determined by SDS-PAGE. |
| **Content :** | The TDP1 solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.4M urea and 10% glycerol. |
| **Storage condition :** | Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Avoid multiple freeze-thaw cycles. |
| **Amino Acid :** | MGSSHHHHHH SSGLVPRGSH MSQEGDYGRW TISSSDESEE EKPKPDKPST SSLLCARQGA ANEPRYTCSE AQKAAHKRKI SPVKFSNTDS VLPPKRQKSG SQEDLGWCLS SSDDELQPEM PQKQAEKVVI KKEKDISAPN DGTAQRTENH GAPACHRLKE EEDEYETSGE GQDIWDMLDK GNPFQFYLTR VSGVKPKYNS GALHIKDILS PLFGTLVSSA QFNYCFDVDW LVKQYPPEFR KKPILLVHGD KREAKAHLHA QAKPYENISL CQAKLDIAFG THHTKMMLLL YEEGLRVVIH TSNLIHADWH QKTQGTHL. |