

TDP1 Human

Description: 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.

Catalog #: ENPS-692

For research use only.

Synonyms: Tyrosyl-DNA phosphodiesterase 1, TDP1 protein, TDP1.

Source: Escherichia Coli.

Physical Appearance: Sterile Filtered colorless solution.

Amino Acid Sequence: MGSSHHHHHH SSGLVPRGSH MSQEGDYGRW TISSDSEEE
EKPKDPKPST SLLCARQGA ANEPRYTCSE AQKAAHKRKI SPVKFSNTDS VLPPKRQKSG
SQEDLGWCLS SSDDELQPEM PQKQAEKVVI KKEKDISAPN DGTAQRTEH GAPACHRLKE
EEDEYETSGE GQDIWMDLKD GNPFQFYLTR VSGVKPKYNS GALHIKDILS PLFGTLVSSA
QFNYCFDWDW LV

Purity: Greater than 90.0% as determined by SDS-PAGE.

Formulation:

The TDP1 solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.4M urea and 10% glycerol.

Stability:

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.

Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

Introduction:

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.

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