

TDP1, 1-298aa Human, His tag, E.coli

Cat.NO.: TP04176

3th Edition

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

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.

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

Molecular Weight: 35.8 kDa (318aa)

Sequences:

MGSSHHHHHSSGLVPRGSHMSQEGDYGRWTISSSDESEEEKPKPKPSTSSLLCARQGAANEPRYTCSEAQKA
AHKRKISPVKFSNTDSVLPPKRQKSGSQEDLGWCLSSSDDELQPEMPQKQAEKVVIKKEKDISAPNDGTAQRTE
HGAPACHRLKEEEDYETSGEGQDIWDMLDKGNPFQFYLTRVSGVKPKYNSGALHIKDILSPLFGTLVSSAQFNYC
FDVDWLVKQYPPEFRKKPILLVHGDKREKAHLHAQAKPYENISLCQAKLDIAFGTHHTKMMLLLYEEGLRVVIHTS
NLIHADWHQKTQGTHL

Purity: > 95% by HPLC

Concentration: 1 mg/ml (determined by Bradford assay)

Endotoxin Level: <1.0 EU per 1 ug of protein (determined by LAL method)

Storage: Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.