

Recombinant Human TDP1, His-tagged

Cat. No. TDP1-7250H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human TDP1, fused to His-tag at N-terminus, was expressed in E.coli.
Species	Human
Source	E.coli
ProteinLength	1-298 a.a.
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.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.4M urea, 10% glycerol.
Molecular Mass	35.8 kDa
Purity	> 90% by SDS - PAGE.
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.
Concentration	1 mg/ml (determined by Bradford assay).

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GENE INFORMATION

Gene Name	TDP1 tyrosyl-DNA phosphodiesterase 1 [Homo sapiens]
Official Symbol	TDP1
Synonyms	TDP1; tyrosyl-DNA phosphodiesterase 1; FLJ11090; SCAN1; tyr-DNA phosphodiesterase 1; MGC104252;
Gene ID	55775
mRNA Refseq	NM_001008744
Protein Refseq	NP_001008744
MIM	607198
UniProt ID	Q9NUW8
Chromosome Location	14q32.11
Pathway	DNA Repair, organism-specific biosystem; Double-Strand Break Repair, organism-specific biosystem; Nonhomologous End-joining (NHEJ), organism-specific biosystem; Processing of DNA ends prior to end rejoining, organism-specific biosystem;
Function	3-tyrosyl-DNA phosphodiesterase activity; double-stranded DNA binding; exonuclease activity; hydrolase activity; phosphoric diester hydrolase activity; protein binding; single-stranded DNA binding;

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