



For research use only

ISO9001

DNA Topoisomerase I, *Vaccinia*

Product	Quantity	Cat. No.	Remarks
DNA Topoisomerase I, <i>Vaccinia</i>	500 unit	EBT-3044	10 unit/ μ l

Description

DNA topoisomerase I is purified from *E.coli* strain containing *Vaccinia* topoisomerase I gene. *Vaccinia* DNA topoisomerase I is a type I eukaryotic topoisomerase that removes positive and negative supercoiling from covalently closed DNA. The DNA topoisomerase I mediates ATP-independent breakage of single-stranded DNA, followed by passage and rejoining. When a topoisomerase transiently breaks a DNA backbone bond, it simultaneously forms a protein-DNA link, in which a tyrosyl oxygen in the enzyme is joined to a DNA phosphorus at one end of the enzyme-severed DNA strand.

Concentration & Storage Condition

10 unit/ μ l. Store at -20°C.

10x Reaction Buffer

200 mM Tris-acetate, pH7.9, 500 mM K-acetate, 100 mM Mg-acetate, 10 mM DTT.

Storage Buffer

50 mM Tris-HCl, pH 7.5, 0.1 M NaCl, 0.1 mM EDTA, 1 mM DTT, 0.1% Triton X-100, 50% glycerol.

Unit Definition

One unit of DNA topoisomerase I converts 1 μ g of supercoiled DNA to relaxed closed circular DNA in 1 hour at 37°C.

QC Tests

Activity, exo and endonuclease activity test, SDS-PAGE purity, performance tests.



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