

Native Wheat germ Topoisomerase I

Cat. No. NATE-0709

Lot. No. (See product label)

Introduction

Description

Topoisomerase I relaxes supercoiled DNA molecules. The enzyme initiates transient breakages and rejoins of phosphodiester bonds in superhelical turns of closed-circular DNA. Enzyme activity is independent of right-and left-handed superhelices.

Applications

Suitable for: • Analysis of degree of DNA supercoiling • Forming knots and circles in single stranded DNA • Converting complementary single stranded DNA to double stranded, circular forms • Rejoining nicks in double-stranded DNA

Synonyms

Topoisomerase I; EC 5.99.1.2; type I DNA topoisomerase; untwisting enzyme; relaxing enzyme; nicking-closing enzyme; swivelase; ω -protein; deoxyribonuclease topoisomerase; topoisomerase; type I DNA topoisomerase; DNA topoisomerase; TOPO I

Product Information

Source

Wheat germ

Form

buffered aqueous glycerol solution

EC Number

EC 5.99.1.2

CAS No.

80449-01-0

Molecular Weight

mol wt 97 kDa

Unit Definition

One unit will convert 1 μ g of supercoiled pGEM9Zf (–) plasmid DNA to the relaxed form in 30 min at 37°C.

Storage and Shipping Information

Storage

–70°C