Creative Enzymes®

Topoisomerase I from E. coli, Recombinant

Cat. No. NATE-1339

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

Product Information

Species	E. coli
Source	E. coli
Form	50 mM KCl, 10 mM Tris-HCl (pH 7.5), 35 mM (NH4)2SO4, 0.1 mM EDTA, 1 mM DTT and 50% glycerol.
Concentration	5,000 units/ml
Unit Definition	One unit is defined as the amount of enzyme that catalyzes the relaxation of >95% of 0.5 µg of pUC19 RF I (negatively supercoiled) DNA in 15 minutes at 37°C in a total reaction volume of 25 µl. DNA supercoiling is assessed by agarose gel electrophoresis in the absence of ethidium bromide.

Storage and Shipping Information

Storage	at -20°C