

Topoisomerase I from E. coli, Recombinant

Cat. No. NATE-1339

Lot. No. (See product label)

Introduction

DescriptionTopoisomerase 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

1/1

electrophoresis in the absence of ethidium bromide.

Storage and Shipping Information

Storage at -20°C

Tel: 1-631-562-8517 1-516-512-3133 **Email:** info@creative-enzymes.com