

# Recombinant Human Topoisomerase (DNA) I

Cat. No. TOP1-519H Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant Human Topoisomerase (DNA) I protein (765 amino acids) was expressed in <i>Baculovirus</i> system.
<b>Species</b>	Human
<b>Source</b>	Insect Cells
<b>Description</b>	Human DNA topoisomerase I (topo I) is a monomeric protein of 765 amino acids encoded by a single-copy gene. Based on its function, DNA topoisomerase I has been subdivided into four distinct domains. The N-terminal 214 amino acids of topo I comprise a highly charged N-terminal domain involved in protein-protein interactions with a number of cellular proteins. The highly conserved core domain expanded from amino acids 215 to 636 contains most catalytic residues and retains DNA binding activity. The active C-terminal domain (residues 713-765) is connected to the core domain by a poorly conserved linker domain (residues 636-712).
<b>Purity</b>	Purity > 95% by SDS-PAGE analysis.
<b>Endotoxin</b>	1 unit equals 1 nanogram purified protein. 0.1 – 1 unit (ng) is sufficient for relaxing 0.5 g of pBR322 supercoiled DNA in a 20 µl reaction.

## GENE INFORMATION

**Gene Name** TOP1 topoisomerase (DNA) I [ Homo sapiens ]

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

<b>Synonyms</b>	TOP1; topoisomerase (DNA) I; TOPI; DNA topoisomerase1; EC 5.99.1.2; OTTHUMP00000031713; DNA topoisomerase I; topoisomerase I; type I DNA topoisomerase
<b>Gene ID</b>	7150
<b>mRNA Refseq</b>	NM_003286
<b>Protein Refseq</b>	NP_003277
<b>MIM</b>	126420
<b>UniProt ID</b>	P11387
<b>Chromosome Location</b>	20q12-q13.1
<b>Function</b>	ATP binding; DNA topoisomerase (ATP-hydrolyzing) activity; DNA topoisomerase type I activity; chromatin binding; nucleotide binding; protein binding

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

PDB rendering based  
on 1a31.



 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA