

Recombinant Human Topoisomerase (DNA) I

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

SPECIFICATION

Product Overview	Recombinant Human Topoisomerase (DNA) I protein (765 amino acids) was expressed in <i>Baculovirus</i> system.
Species	Human
Source	Insect Cells
Description	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).
Purity	Purity > 95% by SDS-PAGE analysis.
Endotoxin	1 unit equals 1 nanogram purified protein. 0.1 – 1 unit (ng) is sufficient for relaxing 0.5 µg of pBR322 supercoiled DNA in a 20 µl reaction.

GENE INFORMATION

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

PDB rendering based
on 1a31.

