

Recombinant Human TOP1, His-tagged

Cat. No. TOP1-30912TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	DNA Topoisomerase-I Human Recombinant produced in SF9 is a glycosylated, polypeptide chain having a molecular mass of 91,576 Dalton (excluding glycosilation) 102 kDa total mass. The TOP1 is expressed with a -6xHis tag and purified by proprietary chromatographic techniques.
Species	Human
Source	Sf9 Cells
ProteinLength	1-765 aa
Description	This gene encodes a DNA topoisomerase, an enzyme that controls and alters the topologic states of DNA during transcription. This enzyme catalyzes the transient breaking and rejoining of a single strand of DNA which allows the strands to pass through one another, thus altering the topology of DNA. This gene is localized to chromosome 20 and has pseudogenes which reside on chromosomes 1 and 22.
Form	Sterile Filtered clear solution. TOP1 is supplied in 16mM HEPES buffer pH-7.5, 400mM sodium chloride, and 20% glycerol.
Purity	Greater than 95% as determined by SDS-PAGE.
Storage	Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. Avoid multiple freeze-thaw cycles.

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GENE INFORMATION

Gene Name	TOP1 topoisomerase (DNA) I [Homo sapiens (human)]
Official Symbol	TOP1
Synonyms	TOP1; TOP1; topoisomerase (DNA) I; DNA topoisomerase 1; type I DNA topoisomerase; NP_003277.1; EC 5.99.1.2
Gene ID	7150
mRNA Refseq	NM_003286
Protein Refseq	NP_003277
MIM	126420
UniProt ID	P11387
Chromosome Location	20q12-q13.1
Pathway	Caspase cascade in apoptosis; Integrated Pancreatic Cancer Pathway
Function	ATP binding; DNA topoisomerase type I activity; DNA topoisomerase type II (ATP-hydrolyzing) activity

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