Recombinant Human TOP1

Cat. No. TOP1-31538TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment corresponding to the N terminal domain amino acids 1-197 of Human Topoisomerase I expressed in a baculovirus system, approximately 24kDa.
Species	Human
ProteinLength	1-197 a.a.
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.
Biological activity	0.1 - 10 units (ng) have been tested for an in vitro relaxation assay in a 20 µl reaction and contain no detectable DNA relaxation activity.
Form	Liquid
Storage buffer	Preservative: NoneConstituents: 20% Glycerol, 20mM Tris Cl, 100mM Potassium chloride, 1mM DTT, 0.2mM EDTA, pH 8.0
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequence	Belongs to the eukaryotic type I topoisomerase family.

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Similarities	

GENE INFORMATION

Gene Name	TOP1 topoisomerase (DNA) I [Homo sapiens]
Official Symbol	TOP1
Synonyms	TOP1; topoisomerase (DNA) I; DNA topoisomerase 1;
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, organism-specific biosystem;
Function	ATP binding; DNA binding; DNA topoisomerase (ATP-hydrolyzing) activity; DNA topoisomerase type I activity; chromatin DNA binding;

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