

Recombinant Human TOP1, His-tagged

Cat. No. TOP1-30911TH Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to the Core domain amino acids 197-651 of Human Topoisomerase I expressed in a baculovirus system with His tag, approximately 54kDa.
Species	Human
ProteinLength	197-651 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.
Conjugation	HIS
Biological activity	TOP1-30911TH contains no detectable DNA relaxation activity by itself.
Form	Liquid
Storage buffer	Preservative: None Constituents: 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.

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Sequence Similarities Belongs to the eukaryotic type I topoisomerase family.

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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