

## Recombinant Human TOP2A

Cat. No. TOP2A-115H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant enzyme overexpressed in a proprietary eukaryotic cell line.
<b>Species</b>	Human
<b>Description</b>	Topoisomerase II $\alpha$ (TopoII $\alpha$ ) is a gene product with conserved catalytic activities and it promotes the progression of DNA damage. The $\alpha$ isoform is present in proliferating cells.
<b>Form</b>	Solution in 10 mM Tris-HCl, pH 7.1, 0.25 M NaCl, 1 mM EDTA, 0.5 mM PMSF, 1 mM 2-mercaptoethanol, 10% glycerol.
<b>Molecular Mass</b>	mol wt 170 kDa
<b>Unit Definition</b>	One unit will decatenate 0.2 $\mu$ g of kinetoplast DNA in 30 minutes at 37°C.
<b>Storage</b>	Store at -70°C

### GENE INFORMATION

<b>Gene Name</b>	TOP2A topoisomerase (DNA) II alpha 170kDa [ Homo sapiens ]
<b>Official Symbol</b>	TOP2A
<b>Synonyms</b>	TOP2A; topoisomerase (DNA) II alpha 170kDa; TOP2, topoisomerase (DNA) II alpha (170kD); DNA topoisomerase 2-alpha; DNA gyrase; DNA topoisomerase II, 170 kD;

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	DNA topoisomerase (ATP-hydrolyzing); DNA topoisomerase II, alpha isozyme; TOP2; TP2A;
<b>Gene ID</b>	7153
<b>mRNA Refseq</b>	NM_001067
<b>Protein Refseq</b>	NP_001058
<b>MIM</b>	126430
<b>UniProt ID</b>	P11388
<b>Chromosome Location</b>	17q21-q22
<b>Pathway</b>	Cell Cycle, organism-specific biosystem; Cell Cycle, Mitotic, organism-specific biosystem; G0 and Early G1, organism-specific biosystem; Mitotic G1-G1/S phases, organism-specific biosystem;
<b>Function</b>	ATP binding; DNA binding; DNA topoisomerase (ATP-hydrolyzing) activity; DNA-dependent ATPase activity; chromatin binding; drug binding; enzyme binding; histone deacetylase binding; nucleotide binding; protein C-terminus binding; protein binding; protein heterodimerization activity; protein homodimerization activity; protein kinase C binding; sequence-specific DNA binding; structure-specific DNA binding; ubiquitin binding;

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