

Recombinant Human TOP2A

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

SPECIFICATION

Product Overview	Recombinant enzyme overexpressed in a proprietary eukaryotic cell line.
Species	Human
Description	Topoisomerase II α (TopoII α) is a gene product with conserved catalytic activities and it promotes the progression of DNA damage. The α isoform is present in proliferating cells.
Form	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.
Molecular Mass	mol wt 170 kDa
Unit Definition	One unit will decatenate 0.2 μ g of kinetoplast DNA in 30 minutes at 37°C.
Storage	Store at -70°C

GENE INFORMATION

Gene Name	TOP2A topoisomerase (DNA) II alpha 170kDa [Homo sapiens]
Official Symbol	TOP2A
Synonyms	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;
Gene ID	7153
mRNA Refseq	NM_001067
Protein Refseq	NP_001058
MIM	126430
UniProt ID	P11388
Chromosome Location	17q21-q22
Pathway	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;
Function	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;