Recombinant Human TOP2A, GST-tagged

Cat. No. TOP2A-2611H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human HTR2A encoding human TOP2Apartial ORF (1435 a.a. - 1531 a.a.) fused with a GST-tag at N-terminal was produced in Wheatgerm expression system.
Species	Human
Source	Wheat Germ
Description	This gene encodes a DNA topoisomerase, an enzyme thatcontrols and alters the topologic states of DNA during transcription. Thisnuclear enzyme is involved in processes such as chromosome condensation,chromatid separation, and the relief of torsional stress that occurs duringDNA transcription and replication. It catalyzes the transient breaking andrejoining of two strands of duplex DNA which allows the strands to passthrough one another, thus altering the topology of DNA. Two forms of thisenzyme exist as likely products of a gene duplication event. The geneencoding this form, alpha, is localized to chromosome 17 and the beta gene islocalized to chromosome 3. The gene encoding this enzyme functions as thetarget for several anticancer agents and a variety of mutations in this genehave been associated with the development of drug resistance. Reducedactivity of this enzyme may also play a role in ataxia-telangiectasia.
MolecularWeight	36.41kDa
Purification	Glutathione Sepharose 4 Fast Flow

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Applications	ELISA; WB
StorageBuffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH8.0in the elution buffer.
Storage	Store at -80°C.Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

Gene Name	TOP2A topoisomerase (DNA)II alpha 170kDa [Homo sapiens]
Official Symbol	TOP2A
Synonyms	TOP2A; topoisomerase (DNA) II alpha 170kDa; TOP2;TP2A; DNA topoisomerase 2-alpha; DNA gyrase; DNA topoisomerase II, 170 kD; DNAtopoisomerase (ATP-hydrolyzing); DNA topoisomerase II, alpha isozyme; OTTHUMP00000207108;EC 5.99.1.3
Gene ID	7153
mRNA Refseq	NM_001067
Protein Refseq	NP_001058
MIM	126430
UniProt ID	P11388
Chromosome Location	17q21-q22
Pathway	Cell Cycle; G0 andEarly G1; Mitotic G1-G1/S phases

Function	ATP binding; enzymebinding; DNAtopoisomerase (ATP-hydrolyzing) activity

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