

Recombinant Human TOP2A, GST-tagged

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

SPECIFICATION

Product Overview	Recombinant Human HTR2A encoding human TOP2A partial 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 that controls and alters the topologic states of DNA during transcription. This nuclear enzyme is involved in processes such as chromosome condensation, chromatid separation, and the relief of torsional stress that occurs during DNA transcription and replication. It catalyzes the transient breaking and rejoining of two strands of duplex DNA which allows the strands to pass through one another, thus altering the topology of DNA. Two forms of this enzyme exist as likely products of a gene duplication event. The gene encoding this form, alpha, is localized to chromosome 17 and the beta gene is localized to chromosome 3. The gene encoding this enzyme functions as the target for several anticancer agents and a variety of mutations in this gene have been associated with the development of drug resistance. Reduced activity of this enzyme may also play a role in ataxia-telangiectasia.
Molecular Weight	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

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Function

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

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