

## PRODUCT DATA SHEET

Bioworld Technology CO., Ltd.



### Topo II $\alpha$ (Q14) Peptide

Cat No.: BS3010P

#### Background

DNA topoisomerase I and II (Topo I and Topo II) are nuclear enzymes that regulate the topological structure of DNA in eukaryotic cells by transiently breaking and rejoining DNA strands. Eukaryotic topoisomerases are capable of relaxing both positive and negative supercoils, whereas prokaryotic topoisomerases relax only negative supercoils. DNA topoisomerases play a role in DNA replication, recombination and transcription and have been identified as targets of numerous anticancer drugs. Topo I, a ubiquitously expressed, soluble enzyme, acts by introducing a transient break in one strand of DNA, while Topo II acts by making a transient double-strand break. Topo II is encoded by two different genes to generate two distinct isoforms that are designated Topo II $\alpha$  and Topo II $\beta$ .

#### Swiss-Prot

P11388

#### Applications

Blocking

#### Specificity

This peptide can be used with studies using BS3010 Topo II $\alpha$  (Q14) pAb.

#### Purification & Purity

Synthetic peptide Topo II $\alpha$  (Q14). (Note: the amino acid sequence is proprietary). The purity is > 98%.

#### Product

1 mg/ml in DI water.

#### Storage & Stability

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

#### Research Use

For research use only, not for use in diagnostic procedure.