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Topoisomerase-II Inhibitor

National Cancer Institute

Source

National Cancer Institute. *Topoisomerase-II Inhibitor*. NCI Thesaurus. Code C1968.

Any substance that inhibits topoisomerase-II, a topoisomerase that relieves torsional stress in a DNA molecule by cutting both strands of the DNA double helix. A topoisomerase II inhibitor can either stabilize the DNA-protein complex or inhibit the catalytic activity of the enzyme. Inhibition of topoisomerase-II causes DNA damage, inhibition of DNA replication, and apoptosis.