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# Mitomycin A

National Cancer Institute

## Source

National Cancer Institute. *Mitomycin A*. NCI Thesaurus. Code C1164.

A methylazirinopyrroloindoleione antineoplastic antibiotic isolated from the bacterium *Streptomyces caespitosus*. Bio-reduced mitomycin A generates oxygen radicals, alkylates DNA, and produces interstrand DNA cross-links, thereby inhibiting DNA synthesis. Mitomycin A is more toxic than mitomycin C due to increased and nonselective DNA cross-linking in both aerobic and hypoxic cells. (NCI04)