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Mitomycin

National Cancer Institute

Source

National Cancer Institute. *Mitomycin*. NCI Thesaurus. Code C1820.

A methylazirinopyrroloindole-dione antineoplastic antibiotic isolated from the bacterium *Streptomyces caespitosus* and other *Streptomyces* bacterial species. Bio-reduced mitomycin C generates oxygen radicals, alkylates DNA, and produces interstrand DNA cross-links, thereby inhibiting DNA synthesis. Preferentially toxic to hypoxic cells, mitomycin C also inhibits RNA and protein synthesis at high concentrations. (NCI04)