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Mitozolomide

National Cancer Institute

Source

National Cancer Institute. *Mitozolomide*. NCI Thesaurus. Code C1166.

A prodrug of imidazotetrazine alkylating agent with antineoplastic property.

Mitozolomide undergoes ring opening upon the nucleophilic attack at C-4 by an activated molecule of water within the major groove of DNA. The resulting bioactive mono-alkyltriazenes are capable of alkylating nucleophilic residues in the immediate vicinity such as N-7 and/or O-6 sites of guanine, thereby causing intra- or inter-stranded DNA cross-links and triggering apoptosis.