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Daunorubicin Citrate

National Cancer Institute

Source

National Cancer Institute. *Daunorubicin Citrate*. NCI Thesaurus. Code C47471.

A semi-synthetic anthracycline glycoside antibiotic obtained from *Streptomyces* with antineoplastic activity. Daunorubicin citrate intercalates DNA, which leads to inhibition of DNA and RNA synthesis, and consequently blocks cell division and results in apoptosis. This anti-tumor antibiotic is most active in the S phase of cell division. Daunorubicin is indicated in the treatment of a wide variety of cancers including acute non-lymphocytic leukemia, non-Hodgkin lymphomas, Ewing's sarcoma, Wilms' tumor, and chronic myelocytic leukemia. (NCI05)