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[54] **METHOD OF INHIBITING CANCER GROWTH**

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[52] **U.S. Cl.** **514/152**; 514/153; 514/154

[58] **Field of Search** 514/152, 154, 514/153; 435/7.23

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[57] **ABSTRACT**

The invention is a method of inhibiting cancer growth, by inhibiting cellular proliferation, invasiveness, or metastasis, or by inducing cytotoxicity against cancer in mammals. The method employs 6-demethyl-6-deoxy-4-de(dimethylamino) tetracycline (CMT-3) and other functionally related chemically modified, preferably non-antibacterial, tetracycline compounds to inhibit cancer growth. The method is particularly effective to inhibit the establishment, growth, and metastasis of solid tumors, such as tumors derived from colon cancer cells, breast cancer cells, melanoma cells, prostatic carcinoma cells, or lung cancer cells.

34 Claims, 21 Drawing Sheets