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# Docetaxel Emulsion ANX-514

National Cancer Institute

## Source

National Cancer Institute. *Docetaxel Emulsion ANX-514*. NCI Thesaurus. Code C78196.

An injectable emulsion formulation containing the taxane docetaxel, a semisynthetic analogue of paclitaxel, with antineoplastic activity. Docetaxel binds specifically to the beta-tubulin subunit of the microtubule, stabilizing tubulin and inhibiting microtubule disassembly, which results in cell-cycle arrest at the G2/M phase and cell death. This agent also inhibits pro-angiogenic factors such as vascular endothelial growth factor (VEGF) and induces various mediators of the inflammatory response. Docetaxel emulsion ANX-514 is formulated without polysorbate 80 or other detergents in order to reduce the incidence and severity of hypersensitivity reactions. In addition, the exclusion of polysorbate 80 in this formulation precludes foaming during the preparation process, thus facilitating preparation and administration.