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Vinblastine

National Cancer Institute

Source

National Cancer Institute. *Vinblastine*. NCI Thesaurus. Code C930.

A natural alkaloid isolated from the plant *Vinca rosea* Linn. Vinblastine binds to tubulin and inhibits microtubule formation, resulting in disruption of mitotic spindle assembly and arrest of tumor cells in the M phase of the cell cycle. This agent may also interfere with amino acid, cyclic AMP, and glutathione metabolism; calmodulin-dependent Ca^{++} - transport ATPase activity; cellular respiration; and nucleic acid and lipid biosynthesis. (NCI04)