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Tubulin Polymerization Inhibitor VERU-111

National Cancer Institute

Source

National Cancer Institute. *Tubulin Polymerization Inhibitor VERU-111*. NCI Thesaurus. Code C158517.

An orally available, selective anti-tubulin agent with potential antineoplastic activity. Upon administration, VERU-111 crosslinks alpha- and beta-tubulin subunits, thereby inhibiting microtubule polymerization. This blocks the formation of the mitotic spindle and leads to cell cycle arrest at the G2/M phase. As a result, this agent disrupts the tumor vasculature, tumor blood flow, deprives tumor cells of nutrients, and induces apoptosis. VERU-111 is not a substrate of P-glycoprotein (Pgp), an efflux pump that when overexpressed, may confer resistance to taxane therap