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Vector-peptide Conjugated Paclitaxel

National Cancer Institute

Source

National Cancer Institute. *Vector-peptide Conjugated Paclitaxel*. NCI Thesaurus. Code C70971.

A proprietary conjugate of paclitaxel with antineoplastic activity. Similar to the free drug, the paclitaxel moiety in vector-peptide conjugated paclitaxel binds to and stabilizes tubulin molecules, promoting assembly of microtubules and inhibiting tubulin disassembly which results in the inhibition of cell division. The Kunitz domain-derived vector-peptide carries the conjugated paclitaxel through the blood brain barrier (BBB), bypassing the transmembrane p-glycoprotein (P-gp) efflux pump, which may result in higher concentrations of paclitaxel in the brain parenchyma.