

Open Peer Review on Qeios

## Etoposide

National Cancer Institute

## Source

National Cancer Institute. <u>Etoposide</u>. NCI Thesaurus. Code C491.

A semisynthetic derivative of podophyllotoxin, a substance extracted from the mandrake root Podophyllum peltatum. Possessing potent antineoplastic properties, etoposide binds to and inhibits topoisomerase II and its function in ligating cleaved DNA molecules, resulting in the accumulation of single- or double-strand DNA breaks, the inhibition of DNA replication and transcription, and apoptotic cell death. Etoposide acts primarily in the G2 and S phases of the cell cycle. (NCI04)

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