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Polo-like Kinase 1 Inhibitor MK1496

National Cancer Institute

Source

National Cancer Institute. *Polo-like Kinase 1 Inhibitor MK1496*. NCI Thesaurus. Code C82389.

An orally bioavailable Polo-like kinase 1 (Plk1) inhibitor with potential antineoplastic activity. Polo-like kinase 1 inhibitor MK1496 selectively inhibits Plk1, inducing selective G2/M arrest followed by apoptosis in a variety of tumor cells while causing reversible cell arrest at the G1 and G2 stage without apoptosis in normal cells. Plk1, named after the polo gene of *Drosophila melanogaster*, is a serine/threonine protein kinase involved in regulating mitotic spindle function in a non-ATP competitive manner.