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## Polo-like Kinase 1 Inhibitor NMS-1286937

National Cancer Institute

## Source

National Cancer Institute. <u>Polo-like Kinase 1 Inhibitor NMS-1286937</u>. NCI Thesaurus. Code C88313.

An orally bioavailable, small-molecule Polo-like kinase 1 (PLK1) inhibitor with potential antineoplastic activity. Polo-like kinase 1 inhibitor NMS-1286937 selectively inhibits PLK1, inducing selective G2/M cell-cycle arrest followed by apoptosis in a variety of tumor cells while causing reversible cell-cycle arrest at the G1 and G2 stages without apoptosis in normal cells. PLK1 inhibition may result in the inhibition of proliferation in PLK1-overexpressing tumor cells. PLK1 is a serine/threonine protein kinase crucial in the regulation of mitosis.

Qeios ID: KB3A9K · https://doi.org/10.32388/KB3A9K