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MKC-1

National Cancer Institute

Source

National Cancer Institute. *MKC-1*. NCI Thesaurus. Code C2507.

An orally bioavailable, small-molecule, bisindolylmaleimide cell cycle inhibitor with potential antineoplastic activity. MKC-1 and its metabolites inhibit tubulin polymerization, blocking the formation of the mitotic spindle, which may result in cell cycle arrest at the G2/M phase and apoptosis. In addition, this agent has been shown to inhibit the activities of the oncogenic kinase Akt, the mTOR pathway, and importin-beta, a protein essential to the transport of other proteins from the cytosol into the nucleus.