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7-Hydroxystaurosporine

National Cancer Institute

Source

National Cancer Institute. *7-Hydroxystaurosporine*. NCI Thesaurus. Code C1271.

A synthetic derivative of staurosporine with antineoplastic activity. 7-hydroxystaurosporine inhibits many phosphokinases, including the serine/threonine kinase AKT, calcium-dependent protein kinase C, and cyclin-dependent kinases. This agent arrests tumor cells in the G1/S of the cell cycle and prevents nucleotide excision repair by inhibiting the G2 checkpoint kinase chk1, resulting in apoptosis. (NCI04)