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CDK4/6 Inhibitor SHR6390

National Cancer Institute

Source

National Cancer Institute. *CDK4/6 Inhibitor SHR6390*. NCI Thesaurus. Code C125899.

A cyclin-dependent kinase (CDK) inhibitor with potential antineoplastic activity. Upon administration, CDK4/6 inhibitor SHR6390 selectively inhibits cyclin-dependent kinase 4 (CDK4) and 6 (CDK6). This inhibits retinoblastoma (Rb) protein phosphorylation early in the G1 phase, which prevents CDK-mediated G1-S phase transition and leads to cell cycle arrest. This suppresses DNA replication and decreases tumor cell proliferation. CDK4 and 6 are serine/threonine kinases that are upregulated in many tumor cell types and play a key role in the regulation of cell cycle progression.