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# CDC7 Kinase Inhibitor NMS-1116354

National Cancer Institute

## Source

National Cancer Institute. *CDC7 Kinase Inhibitor NMS-1116354*. NCI Thesaurus. Code C88316.

An orally bioavailable cell division cycle 7 homolog (CDC7) kinase inhibitor with potential antineoplastic activity. CDC7 kinase inhibitor NMS-1116354 binds to and inhibits the activity of CDC7, which may result in the inhibition of DNA replication and mitosis, the induction of tumor cell apoptosis, and the inhibition of tumor cell proliferation in CDC7-overexpressing tumor cells. The serine-threonine kinase CDC7 initiates DNA replication by phosphorylating MCM2 (minichromosome maintenance complex component 2) at Ser40 and Ser53.