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Apitolisib

National Cancer Institute

Source

National Cancer Institute. *Apitolisib*. NCI Thesaurus. Code C91731.

An orally available agent targeting phosphatidylinositol 3 kinase (PI3K) and mammalian target of rapamycin (mTOR) kinase in the PI3K/mTOR signaling pathway, with potential antineoplastic activity. Apitolisib inhibits both PI3K kinase and mTOR kinase, which may result in tumor cell apoptosis and growth inhibition of cancer cells overexpressing PI3K/mTOR. Activation of the PI3K/mTOR pathway promotes cell growth, survival, and resistance to chemotherapy and radiotherapy; mTOR, a serine/threonine kinase downstream of PI3K, may also be activated in a PI3K-independent fashion.