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Dactolisib

National Cancer Institute

Source

National Cancer Institute. *Dactolisib*. NCI Thesaurus. Code C74072.

An orally bioavailable imidazoquinoline targeting the phosphatidylinositol 3 kinase (PI3K) and the mammalian target of rapamycin (mTOR), with potential antineoplastic activity. Dactolisib inhibits PI3K kinase and mTOR kinase in the PI3K/AKT/mTOR kinase signaling pathway, which may result in tumor cell apoptosis and growth inhibition in PI3K/mTOR-overexpressing tumor cells. 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 independent of PI3K.