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## MTOR Inhibitor GDC-0349

National Cancer Institute

## Source

National Cancer Institute. <u>mTOR Inhibitor GDC-0349</u>. NCI Thesaurus. Code C133227.

An orally bioavailable, ATP-competitive, tetrahydroquinazoline (THQ)-based inhibitor of the mammalian target of rapamycin (mTOR) with potential antineoplastic activity. Upon administration, GDC-0349 selectively binds to and inhibits the activity of mTOR, which may result in both the induction of tumor cell apoptosis and a decrease in tumor cell proliferation. mTOR, a serine/threonine kinase belonging to the phosphatidylinositol-3 (PI3K) kinase-related kinase (PIKK) family, plays an important role in the PI3K/Akt/mTOR signaling pathway that regulates cell growth and proliferation, and its expression or activity is frequently dysregulated in human cancers.

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