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Acalisib

National Cancer Institute

Source

National Cancer Institute. *Acalisib*. NCI Thesaurus. Code C103277.

An inhibitor of the beta and delta isoforms of the 110 kDa catalytic subunit of class IA phosphoinositide-3 kinases (PI3K) with potential immunomodulating and antineoplastic activities. Acalisib inhibits the activity of PI3K, thereby preventing the production of the second messenger phosphatidylinositol-3,4,5-trisphosphate (PIP3), which decreases tumor cell proliferation and induces cell death. PI3K-mediated signaling is often dysregulated in cancer cells; the targeted inhibition of PI3K is designed to preserve PI3K signaling in normal, non-neoplastic cells.