Open Peer Review on Qeios

PI3K/mTOR Kinase Inhibitor PF-04691502

National Cancer Institute

Source

National Cancer Institute. <u>PI3K/mTOR Kinase Inhibitor PF-04691502</u>. NCI Thesaurus. Code C84837.

An agent targeting the phosphatidylinositol 3 kinase (PI3K) and mammalian target of rapamycin (mT OR) in the PI3K/mT OR signaling pathway, with potential antineoplastic activity. PI3K/mT OR kinase inhibitor PF-04691502 inhibits both PI3K and mT OR kinases, which may result in apoptosis and growth inhibition of cancer cells overexpressing PI3K/mT OR. Activation of the PI3K/mT OR pathway promotes cell growth, survival, and resistance to chemotherapy and radiotherapy; mT OR, a serine/threonine kinase downstream of PI3K, may also be activated independent of PI3K.