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PI3K-delta Inhibitor YY-20394

National Cancer Institute

Source

National Cancer Institute. *PI3K-delta Inhibitor YY-20394*. NCI Thesaurus. Code C158508.

An orally available selective inhibitor of the delta form of phosphatidylinositol 3-kinase (PI3-kinase subunit delta; PI3K-delta; PI3Kdelta), with potential antineoplastic activity. Upon oral administration, PI3K-delta inhibitor YY-20394 selectively binds to and inhibits PI3K-delta and prevents the activation of the PI3K/AKT signaling pathway. This decreases proliferation of and induces cell death in PI3K-delta over-expressing tumor cells. PI3K-delta also plays a key role in the B-cell receptor (BCR) signaling pathway and the proliferation of certain hematologic cancer cells. The targeted inhibition of PI3K-delta is designed to preserve PI3K signaling in normal, non-neoplastic cells, thereby minimizing serious side effects.