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PI3Kdelta Inhibitor GS-9901

National Cancer Institute

Source

National Cancer Institute. *PI3Kdelta Inhibitor GS-9901*. NCI Thesaurus. Code C121374.

An orally bioavailable, small molecule inhibitor of the delta isoform of phosphoinositide-3 kinase (PI3Kdelta) with potential immunomodulating and antineoplastic activities. Upon oral administration, PI3Kdelta inhibitor GS-9901 selectively binds to the delta isoform of PI3K and inhibits its activity. This inhibits the activation of the PI3Kdelta-mediated signaling pathway and prevents proliferation of PI3Kdelta-overexpressing tumor cells. Unlike other isoforms of PI3K, PI3Kdelta is expressed primarily in certain tumor cell types and plays a key role in tumor cell proliferation, motility and survival. The targeted inhibition of PI3Kdelta is designed to preserve PI3K signaling in normal, non-neoplastic cells and thus reduces toxicity to normal, healthy cells.