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Patidegib

National Cancer Institute

Source

National Cancer Institute. *Patidegib*. NCI Thesaurus. Code C80063.

An orally bioavailable, cyclopamine-derived inhibitor of the Hedgehog (Hh) pathway with potential antineoplastic activity. Specifically, patidegib binds to and inhibits the cell membrane-spanning G-protein coupled receptor SMO, which may result in the suppression of Hh pathway signaling and a decrease in tumor cell proliferation and survival. SMO is activated upon binding of Hh ligand to the cell surface receptor Patched (PTCH); inappropriate activation of Hh signaling and uncontrolled cellular proliferation may be associated with SMO mutations. The Hh signaling pathway plays an important role in proliferation of neuronal precursor cells in the developing cerebellum and other tissues.