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C-Kit Inhibitor PLX9486

National Cancer Institute

Source

National Cancer Institute. *c-Kit Inhibitor PLX9486*. NCI Thesaurus. Code C121647.

An orally bioavailable protein tyrosine kinase inhibitor of mutated forms of the tumor-associated antigen mast/stem cell factor receptor c-Kit (SCFR), with potential antineoplastic activity. Upon oral administration, c-Kit inhibitor PLX9486 binds to and inhibits specific c-Kit mutants. This may result in an inhibition of tumor cell proliferation in cancer cell types that overexpress these c-Kit mutations. c-Kit, a transmembrane protein and receptor tyrosine kinase, is overexpressed in solid tumors and hematological malignancies; it plays a key role in the regulation of cell differentiation and proliferation.