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FLT3 Inhibitor SKI-G-801

National Cancer Institute

Source

National Cancer Institute. *FLT3 Inhibitor SKI-G-801*. NCI Thesaurus. Code C155773.

An orally bioavailable inhibitor of both wild type and mutant forms of FMS-like tyrosine kinase 3 (FLT3; CD135; STK1; FLK2), with potential antineoplastic activity. Upon administration, FLT3 inhibitor SKI-G-801 binds to and inhibits the activity of FLT3, including FLT3-ITD (internal tandem duplications), FLT3-D835Y as well as other mutants. This inhibits uncontrolled FLT3 signaling and results in the inhibition of proliferation in tumor cells overexpressing FLT3. FLT3, a class III receptor tyrosine kinase (RTK), is overexpressed or mutated in most B lineage neoplasms and in acute myeloid leukemias, and plays a key role in tumor cell proliferation. In addition, SKI-G-801 also inhibits, to a lesser degree, the receptor tyrosine kinases AXL (UFO), Mer, Ret, vascular endothelial growth factor receptor 1 (VEGFR1), Fms, fibroblast growth factor receptors (FGFR) 1 and 3, and the serine/threonine kinases Aurora B and C.