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Semaxanib

National Cancer Institute

Source

National Cancer Institute. *Semaxanib*. NCI Thesaurus. Code C1831.

A quinolone derivative with potential antineoplastic activity. Semaxanib reversibly inhibits ATP binding to the tyrosine kinase domain of vascular endothelial growth factor receptor 2 (VEGFR2), which may inhibit VEGF-stimulated endothelial cell migration and proliferation and reduce the tumor microvasculature. This agent also inhibits the phosphorylation of the stem cell factor receptor tyrosine kinase c-kit, often expressed in acute myelogenous leukemia cells.