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Entrectinib

National Cancer Institute

Source

National Cancer Institute. *Entrectinib*. NCI Thesaurus. Code C114984.

An orally bioavailable inhibitor of the tyrosine kinases tropomyosin receptor kinases (Trk) A, B and C, C-ros oncogene 1 (ROS1) and anaplastic lymphoma kinase (ALK), with potential antineoplastic activity. Upon administration, entrectinib binds to and inhibits TrkA, TrkB, TrkC, ROS1 and ALK. Inhibition of these kinases may result in a disruption of TrkA-, TrkB-, TrkC-, ROS1-, and ALK-mediated signaling. This leads to an induction of apoptosis and an inhibition of tumor cell proliferation in tumor cells that express these kinases. TrkA, TrkB, TrkC, ROS1 and ALK are overexpressed in a variety of cancer cell types.