Gilteritinib Fumarate

National Cancer Institute

Source

National Cancer Institute. Gilteritinib Fumarate. NCI Thesaurus. Code C119665.

The fumarate salt form of gilteritinib, an orally bioavailable inhibitor of the receptor tyrosine kinases (RTKs) FMS-like tyrosine kinase 3 (FLT3; STK1; FLK2), AXL (UFO; JTK11), anaplastic lymphoma kinase (ALK; CD246), and leukocyte receptor tyrosine kinase (LTK), with potential antineoplastic activity. Upon administration, gilteritinib binds to and inhibits both the wild-type and mutated forms of FLT3, AXL, ALK and LTK. This may result in an inhibition of FLT3-, AXL-, ALK-, and LTK-mediated signal transduction pathways and reduced proliferation in cancer cells that overexpress these RTKs. FLT3, AXL, ALK, and LTK, which are overexpressed or mutated in a variety of cancer cell types, play key roles in tumor cell growth and survival.