

[Open Peer Review on Qeios](#)

Defactinib Hydrochloride

National Cancer Institute

Source

National Cancer Institute. *Defactinib Hydrochloride*. NCI Thesaurus. Code C128039.

The hydrochloride salt form of defactinib, an orally bioavailable, small-molecule focal adhesion kinase (FAK) inhibitor with potential antiangiogenic and antineoplastic activities. Defactinib inhibits FAK, which may prevent the integrin-mediated activation of several downstream signal transduction pathways, including those involving RAS/MEK/ERK and PI3K/Akt, thus inhibiting tumor cell migration, proliferation, survival, and tumor angiogenesis. The tyrosine kinase FAK, a signal transducer for integrins, is normally activated by binding to integrins in the extracellular matrix (ECM) but may be upregulated and constitutively activated in various tumor cell types.