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Crenolanib Besylate

National Cancer Institute

Source

National Cancer Institute. *Crenolanib Besylate*. NCI Thesaurus. Code C106204.

The besylate salt form of crenolanib, an orally bioavailable benzimidazole targeting the platelet-derived growth factor receptor (PDGFR) subtypes alpha and beta and FMS-related tyrosine kinase 3 (Flt3), with potential antineoplastic activity. Upon oral administration, crenolanib binds to and inhibits both wild-type and mutated forms of PDGFR and Flt3, which may result in the inhibition of PDGFR- and Flt3-related signal transduction pathways. This results in inhibition of tumor angiogenesis and tumor cell proliferation in PDGFR and/or Flt3 overexpressing tumor cells. PDGFR and Flt3, class III receptor tyrosine kinases, are upregulated or mutated in many tumor cell types.