

Product Data Sheet

Product Name: Chiauranib

Cat. No.: GC62145

Chemical Properties

Cas. No. 1256349-48-0

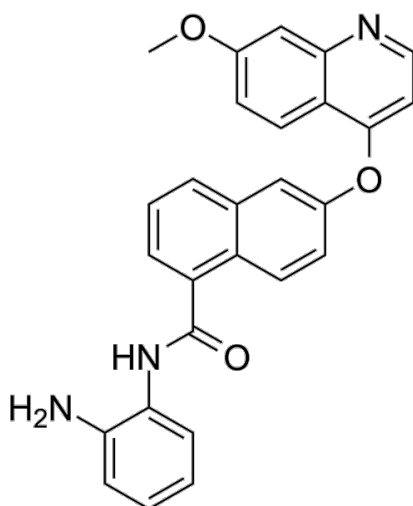
Formula $C_{27}H_{21}N_3O_3$ M.Wt 435.47

Solubility DMSO : 62.5 mg/mL (143.52 mM; Need ultrasonic) Storage 4°C, protect from light

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure



Background

Chiauranib (CS2164) is an orally active multi-target inhibitor against tumor angiogenesis. Chiauranib potently inhibits the angiogenesis-related kinases (VEGFR1, VEGFR2, VEGFR3, PDGFR α and c-

Caution: Product has not been fully validated for medical applications. For research use only.

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Kit), mitosis-related kinase Aurora B, and chronic inflammation-related kinase CSF-1R, with IC₅₀ values ranging from 1-9 nM. Chiauranib has strongly anticancer effects[1].

Chiauranib (CS2164; 3 μ M; 24 hours) shows induction of G2/M cell cycle arrest and suppression of cell proliferation in tumor tissues through the inhibition of Aurora B-mediated H3 phosphorylation[1]. In HUVEC and PDGFR β phosphorylation in PDGFR β overexpressed NIH3T3 cells, Chiauranib (CS2164; 0.03-3 μ M) displays anti-angiogenic activities through suppression of VEGFR/PDGFR phosphorylation, inhibition of ligand-dependent cell proliferation and capillary tube formation, and prevention of vasculature formation in tumor tissues[1]. Chiauranib (CS2164) inhibits CSF-1R phosphorylation that leads to the suppression of ligand-stimulated monocyte-to-macrophage differentiation and reduces CSF-1R+ cells in tumor tissues[1].

Chiauranib (CS2164; 0.5-40 mg/kg; oral administration; once daily; for 33 days or 43 days) treatment induces remarkable regression or complete inhibition of tumor growth at well-tolerated oral doses in several human tumor xenograft models. Chiauranib exhibits broad and potent in vivo anti-tumor activities[1].

[1]. You Zhou, et al. CS2164, a novel multi-target inhibitor against tumor angiogenesis, mitosis and chronic inflammation with anti-tumor potency. Cancer Sci. 2017 Mar;108(3):469-477.

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