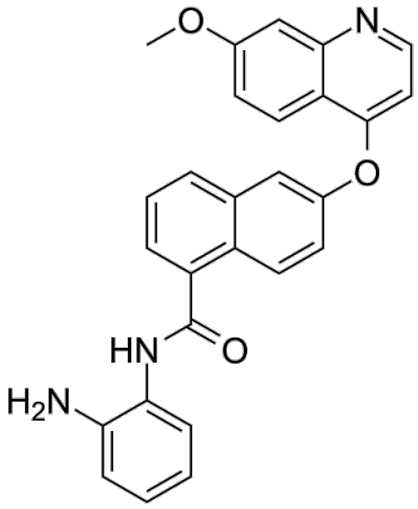
Product Data Sheet

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, PDGFRα and c-

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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 μM; 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 PDGFRβ phosphorylation in PDGFRβ overexpressed NIH3T3 cells, Chiauranib (CS2164; 0.03-3 μM) 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.

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