

ZM323881

Chemical Properties

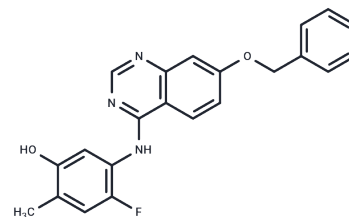
CAS No. : 193001-14-8

Formula: C₂₂H₁₈FN₃O₂

Molecular Weight: 375.4

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

Description	ZM323881 is a potent and selective inhibitor of VEGFR2 with an IC ₅₀ of less than 2 nM.
In vitro	ZM323881, an anilinoquinazoline compound, functions as a potent inhibitor of VEGFR2 (KDR) tyrosine kinase, displaying exceptional selectivity by significantly limiting its activity compared to that of other receptor tyrosine kinases like PDGFR β , FGFR1, EGFR, and erbB2 (IC ₅₀ >50 μ M). It effectively suppresses VEGF-A-driven endothelial cell proliferation (IC ₅₀ =8 nM) and VEGFR2 tyrosine phosphorylation [1]. Notably, ZM323881 specifically targets VEGFR-2 inhibition without affecting VEGFR-1, EGFR, PDGFR, or HGF receptor activation. Additionally, in HAECs, it completely blocks VEGF-induced ERK phosphorylation at a concentration of 1 μ M [2], showcasing its potential therapeutic utility in conditions characterized by abnormal angiogenesis.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6638 mL	13.3191 mL	26.6383 mL
5 mM	0.5328 mL	2.6638 mL	5.3277 mL
10 mM	0.2664 mL	1.3319 mL	2.6638 mL
50 mM	0.0533 mL	0.2664 mL	0.5328 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Inhibitor • Natural Compounds • Compound Libraries • Recombinant Proteins

This product is for Research Use Only. Not for Human or Veterinary or Therapeutic Use

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