

PDGFR α kinase-IN-2

Chemical Properties

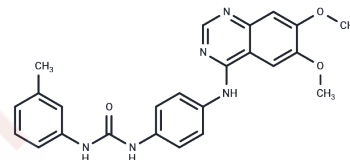
CAS No. : 3066103-58-7

Formula: C₂₄H₂₃N₅O₃

Molecular Weight: 429.47

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

Actual storage temperature shall be subject to the COA.



Biological Description

Description	PDGFR α kinase-IN-2 is a potent inhibitor of PDGFR- α with an IC ₅₀ of 2.1 nM. It exhibits anticancer activity against human colon cancer HT-29 cells, with an IC ₅₀ of 1.48 μ M. Additionally, PDGFR α kinase-IN-2 demonstrates anti-angiogenic properties in zebrafish models with low embryotoxicity, making it suitable for research in colon cancer and anti-angiogenesis.
Targets(IC ₅₀)	PDGFR
In vivo	PDGFR α kinase-IN-2 (Compound 6o) (0.1-10 μ M, 72 h) significantly hinders the formation of zebrafish intersegmental vessels (ISV) in a dose-dependent manner and demonstrates superior anti-angiogenic activity compared to Sorafenib. Enpp-1-IN-27 (0.1-50 μ M, 24 h) exhibits a particularly low lethality rate in zebrafish embryos and has a weaker effect than Sorafenib.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3285 mL	11.6423 mL	23.2845 mL
5 mM	0.4657 mL	2.3285 mL	4.6569 mL
10 mM	0.2328 mL	1.1642 mL	2.3285 mL
50 mM	0.0466 mL	0.2328 mL	0.4657 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.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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