

VEGFR-2-IN-58

Chemical Properties

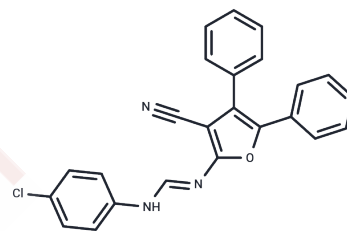
CAS No. :

Formula: C₂₄H₁₆ClN₃O

Molecular Weight: 397.856

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	VEGFR-2-IN-58 (Compound 7b) is a VEGFR-2 inhibitor with an IC ₅₀ of 42.5 nM. It shows selective cytotoxicity against cancer cells, induces cell cycle arrest at the G ₂ /M phase, and triggers apoptosis by increasing BAX expression and decreasing Bcl2 expression. Additionally, VEGFR-2-IN-58 hampers cancer cell wound closure.
Targets(IC ₅₀)	Apoptosis, VEGFR
In vitro	VEGFR-2-IN-58 inhibits the proliferation of HepG2, MCF-7, A549, HT-29, PC3, and WI-38 cells with IC ₅₀ values of 7.28, 6.72, 6.66, 8.51, 14.5, and 30 μM, respectively [1]. In HT-29 cell lines, VEGFR-2-IN-58 (8.51 μM, 24 h) not only induces apoptosis but also exhibits G ₂ /M phase cell growth inhibition [1]. Additionally, VEGFR-2-IN-58 (0.85, 4.26 μM, 48 h) significantly impedes wound healing in HT-29 cells [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5134 mL	12.5672 mL	25.1345 mL
5 mM	0.5027 mL	2.5134 mL	5.0269 mL
10 mM	0.2513 mL	1.2567 mL	2.5134 mL
50 mM	0.0503 mL	0.2513 mL	0.5027 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

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

Tel: 781-999-4286

E_mail: info@targetmol.com

Address: 34 Washington Street, Wellesley Hills, MA 02481