

VEGFR-IN-1

Chemical Properties

CAS No. : 269390-69-4

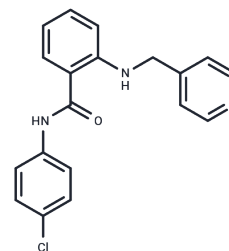
Formula: C₁₉H₁₆ClN₃O

Molecular Weight: 337.8

Keep away from direct sunlight

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-IN-1 is a potent VEGFR2 inhibitor (IC ₅₀ = 3 nM). It blocks VEGF-induced signaling to suppress endothelial cell proliferation and angiogenesis in cancer research.
Targets(IC ₅₀)	VEGFR
In vitro	VEGFR-IN-1 is an angiogenesis inhibitor that blocks signaling by competitively binding to the VEGFR ATP site (IC ₅₀ = 0.02 μM for KDR) [1].

Solubility Information

Solubility	DMSO: 100 mg/mL (296.03 mM), Sonication is recommended. Ethanol: ≤25 mg/mL, Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 2.5 mg/mL (7.4 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.9603 mL	14.8017 mL	29.6033 mL
5 mM	0.5921 mL	2.9603 mL	5.9207 mL
10 mM	0.296 mL	1.4802 mL	2.9603 mL
50 mM	0.0592 mL	0.296 mL	0.5921 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.

Reference

Latt SA, Stetten G, Juergens LA, Recent developments in the detection of deoxyribonucleic acid synthesis by 33258 Hoechst fluorescence. The journal of histochemistry and cytochemistry : official journal of the Histochemistry Society 23 (7): 493-505.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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