

9-ING-41

Chemical Properties

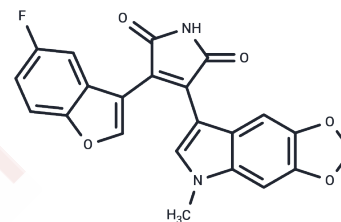
CAS No. : 1034895-42-5

Formula: C₂₂H₁₃FN₂O₅

Molecular Weight: 404.35

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	9-ING-41 is a glycogen synthase kinase-3 inhibitor.
Targets(IC50)	Apoptosis, Autophagy, GSK-3
In vitro	9-ING-41 (2, 4 μ M; 48 hours) decreases neuroblastoma cell viability induces apoptosis [2]. 9-ING-41 (1, 2 μ M; 24 hours) is a potent cell cycle-blocking agent for lymphoma cells [2]. 9-ING-41 (0.1-1 μ M) inhibits GSK-3 leading to a decreased expression of the NF- κ B target XIAP and significant apoptosis in neuroblastoma cells as shown by PARP cleavage, an apoptosis marker[1]. 9-ING-41 (0.5, 1.0, 1.5, 2.0 μ M) inhibits the proliferation rate of all TCL and MCL lines with concentrations as low as 1.0 mM[2].
In vivo	In a mouse model of MCL, 9-ING-41 (40 mg/kg/every other day; for 17 days) has single-agent antitumor activity [2].

Solubility Information

Solubility	DMSO: 125 mg/mL (309.14 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4731 mL	12.3655 mL	24.731 mL
5 mM	0.4946 mL	2.4731 mL	4.9462 mL
10 mM	0.2473 mL	1.2366 mL	2.4731 mL
50 mM	0.0495 mL	0.2473 mL	0.4946 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

Ugol'kov AV, et al. 9-ING-41, a small-molecule glycogen synthase kinase-3 inhibitor, is active in neuroblastoma. *Anticancer Drugs*. 2018 Sep;29(8):717-724.

Wu X, et al. Targeting glycogen synthase kinase 3 for therapeutic benefit in lymphoma. *Blood*. 2019 Jul 25;134(4):363-373.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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