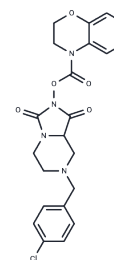


ABC99

Chemical Properties

CAS No. : 2331255-53-7
 Formula: C₂₂H₂₁ClN₄O₅
 Molecular Weight: 456.88
 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	ABC99 is a selective irreversible inhibitor of the wnt-deacylating enzyme. ABC99 inhibited NOTUM (IC ₅₀ : 13 nM). It also showed excellent selectivity across the serine hydrolase family.
Targets(IC ₅₀)	Wnt/beta-catenin
In vitro	ABC99 (0.1~10 μM; 2 hours; SW620 cells) inhibits NOTUM and preserves Wnt-3A activity in a concentration-dependent manner [1].

Solubility Information

Solubility	DMSO: 37.5 mg/mL (82.08 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 2 mg/mL (4.38 mM), Sonication is recommended. 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 3.75 mg/mL (8.21 mM), Solution. 10% DMSO+90% Saline: < 3.75 mg/mL (8.21 mM), Lower concentrations may be soluble, but exact solubility limit is unknown. <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	2.1888 mL	10.9438 mL	21.8876 mL
5 mM	0.4378 mL	2.1888 mL	4.3775 mL
10 mM	0.2189 mL	1.0944 mL	2.1888 mL
50 mM	0.0438 mL	0.2189 mL	0.4378 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

Suciu RM, et al. Selective Irreversible Inhibitors of the Wnt-Deacylating Enzyme NOTUM Developed by Activity-Based Protein Profiling. ACS Med Chem Lett. 2018;9(6):563-568.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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