

ABC99

## Chemical Properties

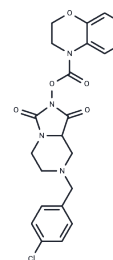
CAS No. : 2331255-53-7

Formula: C<sub>22</sub>H<sub>21</sub>ClN<sub>4</sub>O<sub>5</sub>

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 <sub>50</sub> : 13 nM). It also showed excellent selectivity across the serine hydrolase family.
Targets(IC <sub>50</sub> )	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: 20 mg/mL (43.78 mM), Sonication and heating to 80°C are 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. <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

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	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

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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.

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