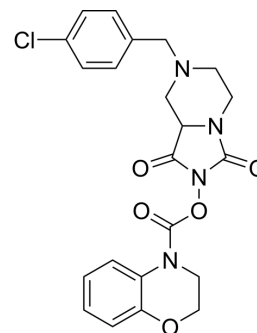


ABC99

Cat. No.:	HY-122832		
CAS No.:	2331255-53-7		
Molecular Formula:	C ₂₂ H ₂₁ ClN ₄ O ₅		
Molecular Weight:	456.88		
Target:	Wnt		
Pathway:	Stem Cell/Wnt		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 25 mg/mL (54.72 mM; ultrasonic and heat to 80°C)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	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	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 50% PEG300 >> 50% saline Solubility: 5 mg/mL (10.94 mM); Suspended solution; Need ultrasonic Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: 2.5 mg/mL (5.47 mM); Clear solution; Need ultrasonic 				

BIOLOGICAL ACTIVITY

Description	ABC99 is an N-hydroxyhydantoin (NHH) carbamate that selectively inhibits the Wnt-deacylating enzyme NOTUM (IC ₅₀ =13 nM). ABC99 preserves Wnt3A signaling in the presence of NOTUM ^[1] .
IC₅₀ & Target	IC ₅₀ : 13 nM (Notum) ^[1]
In Vitro	<p>ABC99 (0.1~10 μM; 2 hours; SW620 cells) inhibits NOTUM in a concentration-dependent manner^[1].</p> <p>ABC99 preserves Wnt-3A activity in the presence of NOTUM in a concentration-dependent manner^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>Western Blot Analysis^[1]</p>

Cell Line:	SW620 cells
Concentration:	0.1~10 μ M
Incubation Time:	2 hours
Result:	Inhibited NOTUM in a concentration-dependent manner.

REFERENCES

[1]. 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.

Caution: Product has not been fully validated for medical applications. For research use only.

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