SIRT1-IN-1

Cat. No.:	HY-136199			
CAS No.:	352554-02-(C		
Molecular Formula:	C ₁₄ H ₁₆ N ₂ O			
Molecular Weight:	228.29			
Target:	Sirtuin; CMV			
Pathway:	Cell Cycle/DNA Damage; Epigenetics; Anti-infection			
Storage:	Powder	-20°C	3 years	
		4°C	2 years	
	In solvent	-80°C	2 years	
		-20°C	1 year	

SOLVENT & SOLUBILITY

		Solvent Mass Concentration	1 mg	5 mg	10 mg		
	Preparing Stock Solutions	1 mM	4.3804 mL	21.9020 mL	43.8039 mL		
	5 mM	0.8761 mL	4.3804 mL	8.7608 mL			
	10 mM	0.4380 mL	2.1902 mL	4.3804 mL			
	Please refer to the so	Please refer to the solubility information to select the appropriate solvent.					
ı Vivo		1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 5 mg/mL (21.90 mM); Clear solution					
		2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 5 mg/mL (21.90 mM); Clear solution					

BIOLOGICAL ACTIVITY						
Description	SIRT1-IN-1 is a selective SIRT1 inhibitor with an IC ₅₀ of 0.205 μM. SIRT1-IN-1 inhibits SIRT2 with an IC ₅₀ of 11.5 μM ^[1] . SIRT1-IN-1, a indole, is a cytomegalovirus (CMV) inhibitors and has antiviral activity ^[2] .					
IC₅₀ & Target	SIRT1 0.205 μΜ (IC ₅₀)	SIRT2 11.5 μΜ (IC ₅₀)	SIRT3 >100 μM (IC ₅₀)			
In Vitro	SIRT1-IN-1 (compound 2) has little effect on SIRT3 (IC ₅₀ >100 μ M) and HDAC (IC ₅₀ >100 μ M) ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.					



H NH₂

Product Data Sheet

CUSTOMER VALIDATION

• J Integr Med. 2021 Nov;19(6):545-554.

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REFERENCES

[1]. Andrew D Napper, et al. Discovery of Indoles as Potent and Selective Inhibitors of the Deacetylase SIRT1. J Med Chem. 2005 Dec 15;48(25):8045-54.

[2]. Thomas Shenk, et al. Sirtuin Modulators as Inhibitors of Cytomegalovirus. US20160296523A1.

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

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