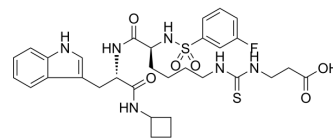


SIRT5 inhibitor 1

Cat. No.:	HY-112634		
CAS No.:	2166487-21-2		
Molecular Formula:	C ₃₁ H ₃₉ FN ₆ O ₆ S ₂		
Molecular Weight:	675		
Target:	Sirtuin		
Pathway:	Cell Cycle/DNA Damage; Epigenetics		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro	DMSO : 125 mg/mL (185.19 mM; Need ultrasonic)			
		Solvent Concentration	Mass	
			1 mg	5 mg
	Preparing Stock Solutions		10 mg	
	1 mM	1.4815 mL	7.4074 mL	14.8148 mL
	5 mM	0.2963 mL	1.4815 mL	2.9630 mL
	10 mM	0.1481 mL	0.7407 mL	1.4815 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: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (3.08 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (3.08 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: 2.08 mg/mL (3.08 mM); Clear solution; Need warming 			

BIOLOGICAL ACTIVITY

Description	SIRT5 inhibitor 1 is a potent Human Sirtuin 5 deacylase inhibitor, with an IC ₅₀ of 0.11 μM.
IC₅₀ & Target	IC ₅₀ : 0.11 μM (Sirtuin) ^[1] .
In Vitro	<p>SIRT5 inhibitor 1 (compound 49) is a very potent human sirtuin 5 deacylase inhibitor, with an IC₅₀ of 0.11 μM, >100-fold from compound 1^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

CUSTOMER VALIDATION

- Nat Commun. 2022 Oct 17;13(1):6121.
- J Cell Mol Med. 2020 Dec;24(23):14039-14049.
- bioRxiv. January 05, 2022.
- bioRxiv. August 09, 2021.

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REFERENCES

[1]. Rajabi N, et al. Mechanism-Based Inhibitors of the Human Sirtuin 5 Deacylase: Structure-Activity Relationship, Biostructural, and Kinetic Insight. Angew Chem Int Ed Engl. 2017 Nov 20;56(47):14836-14841.

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

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