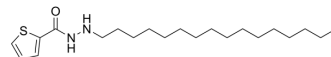


SIS17

Cat. No.:	HY-128918
CAS No.:	2374313-54-7
Molecular Formula:	C ₂₁ H ₃₈ N ₂ OS
Molecular Weight:	366.6
Target:	HDAC
Pathway:	Cell Cycle/DNA Damage; Epigenetics
Storage:	Powder -20°C 3 years 4°C 2 years



* The compound is unstable in solutions, freshly prepared is recommended.

SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (272.78 mM; ultrasonic and warming and heat to 60°C)					
	Preparing Stock Solutions	Solvent Concentration	Mass			
			1 mg	5 mg	10 mg	
			1 mM	2.7278 mL	13.6388 mL	27.2777 mL
			5 mM	0.5456 mL	2.7278 mL	5.4555 mL
10 mM	0.2728 mL	1.3639 mL	2.7278 mL			
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (5.67 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2 mg/mL (5.46 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	SIS17 is a mammalian histone deacetylase 11 (HDAC 11) inhibitor with an IC ₅₀ value of 0.83 μM, inhibits the demyristoylation HDAC11 substrate, serine hydroxymethyl transferase 2, without inhibiting other HDACs ^[1] .
IC ₅₀ & Target	HDAC11 0.83 μM (IC ₅₀)
In Vitro	SIS17 (0-50 μM, 6 h) increases the fatty acylation level of SHMT2 in MCF7 cells ^[1] . SIS17 (48 h) combined with Oxaliplatin (HY-17371) shows a synergistic cytotoxicity in K562 cells ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Cell Metab. 2021 Nov 20;S1550-4131(21)00532-5.
- Redox Biol. 3 September 2022, 102461.
- FASEB J. 2022 Jul;36(7):e22326.
- Chemrxiv. 2024 Jan 9.

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REFERENCES

- [1]. Li R, et al. A pan-cancer analysis identifies HDAC11 as an immunological and prognostic biomarker. FASEB J. 2022 Jul;36(7):e22326.
- [2]. Son SI, et al. Activity-Guided Design of HDAC11-Specific Inhibitors. ACS Chem Biol. 2019 Jul 19;14(7):1393-1397.
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Caution: Product has not been fully validated for medical applications. For research use only.

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