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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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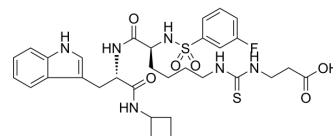
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SIRT5 inhibitor 1

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)				
	Preparing Stock Solutions	Solvent Concentration Mass	1 mg	5 mg	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	1. 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				
	2. 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				
	3. 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 deacetylase inhibitor, with an IC ₅₀ of 0.11 μM.
IC ₅₀ & Target	IC ₅₀ : 0.11 μM (Sirtuin) ^[1] .
In Vitro	SIRT5 inhibitor 1 (compound 49) is a very potent human sirtuin 5 deacetylase inhibitor, with an IC ₅₀ of 0.11 μM, >100-fold from compound 1 ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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.

See more customer validations on www.MedChemExpress.com

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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