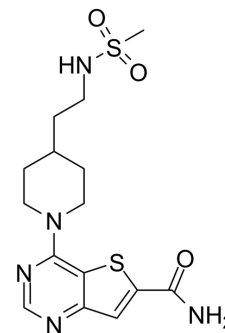


SIRT-IN-2

Cat. No.:	HY-16616		
CAS No.:	1431411-66-3		
Molecular Formula:	C ₁₅ H ₂₁ N ₅ O ₃ S ₂		
Molecular Weight:	383.49		
Target:	Sirtuin		
Pathway:	Cell Cycle/DNA Damage; Epigenetics		
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 : 62.5 mg/mL (162.98 mM; Need ultrasonic)			
		Solvent Concentration	Mass	
			1 mg	5 mg
			10 mg	
Preparing Stock Solutions	1 mM	2.6076 mL	13.0381 mL	26.0763 mL
	5 mM	0.5215 mL	2.6076 mL	5.2153 mL
	10 mM	0.2608 mL	1.3038 mL	2.6076 mL
Please refer to the solubility information to select the appropriate solvent.				
In Vivo	1. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (5.42 mM); Clear solution			

BIOLOGICAL ACTIVITY

Description	SIRT-IN-2 is a potent inhibitor of SIRT1/2/3, with IC ₅₀ s of 4, 4, 7 μM, respectively.		
IC₅₀ & Target	SIRT1 4 μM (IC ₅₀)	SIRT2 1 μM (IC ₅₀)	SIRT3 7 μM (IC ₅₀)
In Vitro	SIRT-IN-2 (compound 31) is one of the most potent truncated pan SIRT1/ 2/3 inhibitor, the IC ₅₀ values are 4, 4, 7 μM, respectively. SIRT-IN-2 (SIRT1/2/3 pan inhibitor) binds identically in the catalytic active site (RMS=0.29 Å), occupying the nicotinamide C-pocket and acetyl lysine substrate channel ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.		

REFERENCES

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

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