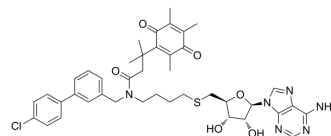


SGC3027

Cat. No.:	HY-112445		
CAS No.:	2624313-13-7		
Molecular Formula:	C ₄₁ H ₄₇ ClN ₆ O ₆ S		
Molecular Weight:	787.37		
Target:	Histone Methyltransferase		
Pathway:	Epigenetics		
Storage:	Powder	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 250 mg/mL (317.51 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Concentration	Mass			
			1 mg	5 mg	10 mg	
			1 mM	1.2701 mL	6.3503 mL	12.7005 mL
			5 mM	0.2540 mL	1.2701 mL	2.5401 mL
10 mM	0.1270 mL	0.6350 mL	1.2701 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 (2.64 mM); Suspended solution; Need ultrasonic					

BIOLOGICAL ACTIVITY

Description	SGC3027 is a histone methyltransferase inhibitor ^[1] . SGC3027 is the first potent, selective and cell active chemical probe for PRMT7 ^[2] .
IC ₅₀ & Target	PRMT7
In Vitro	SGC3027 is a pro-drug of SGC8158 which releases the active component upon reduction in the cell by reductases.? In cellular assays using C2C12 cells, SGC3027 inhibits the methylation of HSP70 with IC ₅₀ =1.3 μM ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Nat Commun. 2021 Mar 29;12(1):1946.
- Mol Cell. 2021 Aug 5;81(15):3171-3186.e8.
- Exp Cell Res. 2023 Apr 6;113586.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Cermakova K, et al. Next-Generation Drugs and Probes for Chromatin Biology: From Targeted Protein Degradation to Phase Separation. Molecules. 2018 Aug 6;23(8). pii: E1958.

[2]. SGC3027 for PRMT7.

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

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