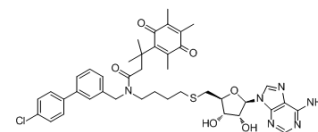


SGC3027

Cat. No.:	HY-112445		
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)

Solvent	Mass	Concentration		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	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.

BIOLOGICAL ACTIVITY

Description

SGC3027 is a **histone methyltransferase** inhibitor^[1]. SGC3027 is the first potent, selective and cell active chemical probe for PRMT7^[2].

IC₅₀ & Target

PRMT7^{[1][2]}

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 IC₅₀=1.3 μM^[2].

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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