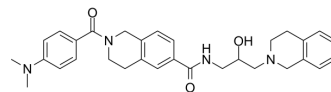


## DW14800

Cat. No.:	HY-128579		
CAS No.:	2243709-60-4		
Molecular Formula:	C <sub>31</sub> H <sub>36</sub> N <sub>4</sub> O <sub>3</sub>		
Molecular Weight:	512.64		
Target:	Histone Methyltransferase		
Pathway:	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 : 100 mg/mL (195.07 mM; Need ultrasonic)			
		Solvent Concentration	Mass	
			1 mg	5 mg
	Preparing Stock Solutions		10 mg	
	1 mM	1.9507 mL	9.7534 mL	19.5069 mL
	5 mM	0.3901 mL	1.9507 mL	3.9014 mL
	10 mM	0.1951 mL	0.9753 mL	1.9507 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: ≥ 2.5 mg/mL (4.88 mM); Clear solution			
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (4.88 mM); Clear solution			
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (4.88 mM); Clear solution			

### BIOLOGICAL ACTIVITY

Description	DW14800 is a protein arginine methyltransferase 5 (PRMT5) inhibitor, with an IC <sub>50</sub> of 17 nM. DW14800 reduces H4R3me2s levels and enhances the transcription of HNF4α, but does not alter PRMT5 expression. Anti-cancer activity <sup>[1]</sup> .
IC <sub>50</sub> & Target	PRMT5

### REFERENCES

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[1]. Zheng BN, et al. Targeting PRMT5 Activity Inhibits the Malignancy of Hepatocellular Carcinoma by Promoting the Transcription of HNF4 $\alpha$ . Theranostics. 2019 Apr 13;9(9):2606-2617.

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

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