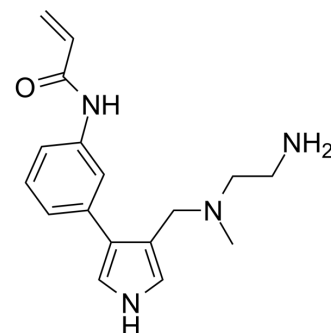


MS117

Cat. No.:	HY-133740		
CAS No.:	2702280-86-0		
Molecular Formula:	C ₁₇ H ₂₂ N ₄ O		
Molecular Weight:	298.38		
Target:	Histone Methyltransferase		
Pathway:	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 : 100 mg/mL (335.14 mM; Need ultrasonic)			
		Solvent Concentration	Mass	
			1 mg	5 mg
			10 mg	
Preparing Stock Solutions	1 mM	3.3514 mL	16.7572 mL	33.5143 mL
	5 mM	0.6703 mL	3.3514 mL	6.7029 mL
	10 mM	0.3351 mL	1.6757 mL	3.3514 mL
Please refer to the solubility information to select the appropriate solvent.				
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (8.38 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (8.38 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (8.38 mM); Clear solution 			

BIOLOGICAL ACTIVITY

Description	MS117 is a first-in-class and cell-active irreversible protein arginine methyltransferase 6 (PRMT6) covalent inhibitor, with an IC ₅₀ of 18 nM ^[1] .
IC₅₀ & Target	PRMT6
In Vitro	MS117 (Compound 4) inhibits the PRMT6 methyltransferase activity in a time-dependent manner ^[1] . MS117 (Compound 4) shows moderate selectivity (6-fold) for PRMT6 over PRMT1 (IC ₅₀ = 0.1 ± 0.025 μM) and PRMT8 (IC ₅₀ =

0.11 ± 0.01 μM) [1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Yudao Shen, et al. Discovery of a First-in-Class Protein Arginine Methyltransferase 6 (PRMT6) Covalent Inhibitor. J Med Chem. 2020 May 28;63(10):5477-5487.

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

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