

产品名称: **MS023**

产品别名: **MS023**

生物活性:					
Description	MS023 is a potent, selective, and cell-active inhibitor of human type I protein arginine methyltransferases (PRMTs) inhibitor, with IC50s of 30, 119, 83, 4 and 5 nM for PRMT1, PRMT3, PRMT4, PRMT6, and PRMT8, respectively[1].				
IC <sub>50</sub> & Target	IC50: 30 nM (PRMT1), 119 nM (PRMT3), 83 nM (PRMT4), 4 nM (PRMT6), 5 nM (PRMT8)[1]				
In Vitro	MS023 (1-1000 nM; 48 hours) inhibits PRMT1 methyltransferase activity in MCF7 cells[1].				
	MS023(1-1000 nM; 20 hours) inhibits PRMT6 methyltransferase activity in HEK293 cells[1].				
	Western Blot Analysis[1]				
	Cell Line:	MCF7 and HEK293 cells			
	Concentration:	1.4, 4, 12, 37, 111, 333, and 1000 nM			
	Incubation Time:	48 hours for MCF7 cells; 20 hours for HEK293 cells			
Solvent&Solubility	Result:	Treatment potently and concentration-dependently reduced cellular levels of H4R3me2a (IC <sub>50</sub> =9±0.2 nM).  Treatment concentration-dependently reduced the H3R2me2a mark (IC <sub>50</sub> =56±7 nM).			
	In Vitro:				
	DMSO : ≥ 30 mg/mL (104.38 mM)				
	* "≥" means soluble, but saturation unknown.				
	Preparing Stock Solutions	Solvent / Mass Concentration	1 mg	5 mg	10 mg
		1 mM	3.4795 mL	17.3974 mL	34.7947 mL
5 mM		0.6959 mL	3.4795 mL	6.9589 mL	
10 mM		0.3479 mL	1.7397 mL	3.4795 mL	
*请根据产品在不同溶剂中的溶解度选择合适的溶剂配制储备液。一旦配成溶液，请分装保存，避免反复冻融造成的产品失效。					
储备液的保存方式和期限：-80℃，6 months；-20℃，1 month。 -80℃ 储存时，请在 6 个月内使用，-20℃ 储存时，请在 1 个月内使用。					
References	[1]. Eram MS, et al. A Potent, Selective, and Cell-Active Inhibitor of Human Type I Protein Arginine Methyltransferases. ACS Chem Biol. 2016 Mar 18;11(3):772-81.				