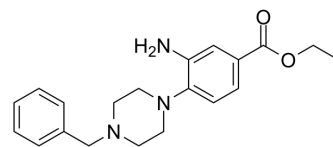


## DCLX069

Cat. No.:	HY-122096
CAS No.:	792946-69-1
Molecular Formula:	C <sub>20</sub> H <sub>25</sub> N <sub>3</sub> O <sub>2</sub>
Molecular Weight:	339.43
Target:	Histone Methyltransferase
Pathway:	Epigenetics
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



### SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (294.61 mM; Need ultrasonic)						
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg	
				1 mM	2.9461 mL	14.7306 mL	29.4612 mL
				5 mM	0.5892 mL	2.9461 mL	5.8922 mL
				10 mM	0.2946 mL	1.4731 mL	2.9461 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 (7.37 mM); Clear solution						
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (7.37 mM); Clear solution						
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (7.37 mM); Clear solution						

### BIOLOGICAL ACTIVITY

Description	DCLX069 is a selective protein arginine methyltransferase 1 (PRMT1) inhibitor with an IC <sub>50</sub> value of 17.9 μM. DCLX069 shows less active against PRMT4 and PRMT6. DCLX069 has anticancer effects <sup>[1]</sup> .
IC <sub>50</sub> & Target	PRMT1 17.9 μM (IC <sub>50</sub> )
In Vitro	DCLX069 (12.5-100 μM) effectively blocks cell proliferation in breast cancer, liver cancer and acute myeloid leukemia cell lines (MCF7, HepG2, and THP1 cells) in a concentration-dependent manner <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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## REFERENCES

[1]. Yiqian Xie, et al. Virtual screening and biological evaluation of novel small molecular inhibitors against protein arginine methyltransferase 1 (PRMT1). Org Biomol Chem. 2014 Dec 21;12(47):9665-73.

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

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