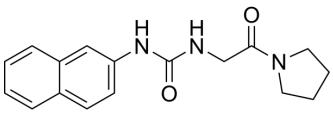
XY1

Cat. No.:	HY-19714
CAS No.:	1624117-53-8
Molecular Formula:	$C_{17}H_{19}N_3O_2$
Molecular Weight:	297.35
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 : 67.5 mg/mL (227.01 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	3.3630 mL	16.8152 mL	33.6304 mL
	5 mM	0.6726 mL	3.3630 mL	6.7261 mL
	10 mM	0.3363 mL	1.6815 mL	3.3630 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: ≥ 2.25 mg/mL (7.57 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.25 mg/mL (7.57 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.25 mg/mL (7.57 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

XY1 is an analog of SGC707 (SGC707 is a potent, selective PRMT3 inhibitor with an IC50 value of 31 nM), but XY1 is completely inactive against PRMT3.

CUSTOMER VALIDATION

- Clin Transl Med. 2022 Jan;12(1):e686.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Kaniskan H?, et al. A potent, selective and cell-active allosteric inhibitor of protein arginine methyltransferase 3 (PRMT3). Angew Chem Int Ed Engl. 2015 Apr 20;54(17):5166-70.

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