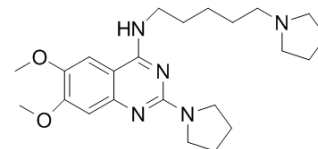


## UNC0379

Cat. No.:	HY-12335		
CAS No.:	1620401-82-2		
Molecular Formula:	C <sub>23</sub> H <sub>35</sub> N <sub>5</sub> O <sub>2</sub>		
Molecular Weight:	413.56		
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 : 50 mg/mL (120.90 mM; Need ultrasonic)

Concentration	Solvent	Mass	1 mg	5 mg	10 mg
			1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		2.4180 mL	12.0901 mL	24.1803 mL
	5 mM		0.4836 mL	2.4180 mL	4.8361 mL
	10 mM		0.2418 mL	1.2090 mL	2.4180 mL

Please refer to the solubility information to select the appropriate solvent.

### In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline  
Solubility: ≥ 2.5 mg/mL (6.05 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: ≥ 2.5 mg/mL (6.05 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 2.5 mg/mL (6.05 mM); Clear solution

## BIOLOGICAL ACTIVITY

### Description

UNC0379 is a selective, substrate-competitive inhibitor of lysine methyltransferase SETD8 (KMT5A) with an IC<sub>50</sub> of 7.3 μM; selective over 15 other methyltransferases<sup>[1]</sup>.

### IC<sub>50</sub> & Target

SETD8/KMT5A<sup>[1]</sup>

## CUSTOMER VALIDATION

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- Proc Natl Acad Sci U S A. 2019 Feb 19;116(8):2961-2966.
  - Cell Death Dis. 2018 Jan 26;9(2):129.
  - Sci Rep. 2020 Mar 11;10(1):4490.

See more customer validations on [www.MedChemExpress.com](http://www.MedChemExpress.com)

## REFERENCES

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[1]. Ma A, et al. Discovery of a Selective, Substrate-Competitive Inhibitor of the Lysine Methyltransferase SETD8. J Med Chem. 2014 Aug 14;57(15):6822-33.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA