# EPZ011989

HY-16986			
1598383-40	-4		
$C_{35}H_{51}N_5O_4$			
605.81			
Histone Met	thyltransf	erase	
Epigenetics			
Powder	-20°C	3 years	
	4°C	2 years	
In solvent	-80°C	2 years	
	-20°C	1 year	
	1598383-40 C <sub>35</sub> H <sub>51</sub> N <sub>5</sub> O <sub>4</sub> 605.81 Histone Met Epigenetics Powder	1598383-40-4 $C_{35}H_{51}N_5O_4$ 605.81 Histone Methyltransf Epigenetics Powder -20°C 4°C In solvent -80°C	

®

MedChemExpress

## SOLVENT & SOLUBILITY

		Mass Solvent 1 mg Concentration		5 mg	10 mg	
	Preparing Stock Solutions	1 mM	1.6507 mL	8.2534 mL	16.5068 m	
		5 mM	0.3301 mL	1.6507 mL	3.3014 mL	
		10 mM	0.1651 mL	0.8253 mL	1.6507 mL	
	Please refer to the so	lubility information to select the app	propriate solvent.			
vo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (4.13 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (4.13 mM); Clear solution					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (4.13 mM); Clear solution					

BIOLOGICAL ACTIV	ИТҮ
Description	EPZ011989 is a potent and orally active Zeste Homolog 2 (EZH2) inhibitor with metabolic stability. EPZ011989 has inhibitory inhibition for EZH2 with a K <sub>i</sub> value of <3 nM. EPZ011989 shows robust methyl mark inhibition and anti-tumor activity. EPZ011989 can be used for the research of various cancers <sup>[1]</sup> . EPZ011989 is a click chemistry reagent, it contains an Alkyne group and can undergo copper-catalyzed azide-alkyne cycloaddition (CuAAc) with molecules containing Azide groups.
IC <sub>50</sub> & Target	EZH2

In Vitro	EPZ011989 inhibits mu ?EPZ011989 reduces ce ?EPZ011989 (0-10 μM; 1 MCE has not independe Cell Proliferation Assay	llular H3K27 methyla 1 days) has anti-prol ently confirmed the a	ition with an iferation effe	IC <sub>50</sub> value of ect in WSU-DL	94 nM <sup>[1]</sup> . .CL2 cells <sup>[1]</sup> .	reference or	ıly.				
	Cell Line:	WSU-DLCL2	cells								
	Concentration:	0-10 μM	0-10 μΜ								
	Incubation Time:	11 days									
	Result:	Demonstrate nM.	ed an averag	e lowest cyto	toxic concent	ration (LCC)	in WSU-DLCL2	cells of 208			
In Vivo	EPZ011989 (oral; 30-100 activity <sup>[1]</sup> . MCE has not independe							and antitum			
	Animal Model:	SCID mice <sup>[1]</sup>									
	Dosage:	125, 250, 500	125, 250, 500, and 1000 mg/kg								
	Administration:	Oral; single,	Oral; single, twice-daily (BID)for 7 days or twice-daily (BID)for 21 days								
	Result:	provided cov Observed co	verage over t mplete ablat ust tumor gro	his value for a ion of the me owth inhibitic	approximatel thyl mark by	y 8 h. the end of da	250 and 500 i ay 7. and extended				
	Animal Model:	Rat <sup>[1]</sup>									
		30, 100, and 3	30, 100, and 300 mg/kg								
	Dosage:	50, 100, and 5				Oral, single					
	Dosage: Administration:										
			route	t <sub>1/2</sub> (h)	t <sub>max</sub> (h)	C <sub>max</sub> (ng/mL)	AUC <sub>inf</sub> (h*ng/mL)	time abov LCC (h)			
	Administration:	Oral, single dose		t <sub>1/2</sub> (h) 4.7	t <sub>max</sub> (h) 2			time abov LCC (h) 4			
	Administration:	Oral, single dose (mg/kg)	route			(ng/mL)	(h*ng/mL)	LCC (h)			

## CUSTOMER VALIDATION

- Proc Natl Acad Sci U S A. 2019 Feb 19;116(8):2961-2966.
- J Immunother Cancer. 2021 May;9(5):e001335.

See more customer validations on www.MedChemExpress.com

#### REFERENCES

[1]. Campbell JE, et al. EPZ011989, A Potent, Orally-Available EZH2 Inhibitor with Robust in Vivo Activity. ACS Med Chem Lett. 2015 Mar 4;6(5):491-495.

#### 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

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