EPZ011989 trifluoroacetate

Cat. No.:	HY-16986A	
CAS No.:	1598383-41-5	° ↓ Ñ ↓
Molecular Formula:	$C_{37}H_{52}F_{3}N_{5}O_{6}$	0 NH
Molecular Weight:	719.83	
Target:	Histone Methyltransferase	
Pathway:	Epigenetics	O F
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)	F F

SOLVENT & SOLUBILITY

		Solvent Mass Concentration	1 mg	5 mg	10 mg	
	Preparing Stock Solutions	1 mM	1.3892 mL	6.9461 mL	13.8922 mL	
		5 mM	0.2778 mL	1.3892 mL	2.7784 mL	
		10 mM	0.1389 mL	0.6946 mL	1.3892 mL	
	Please refer to the so	ubility information to select the app	propriate solvent.	1	1	
n Vivo		1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (3.47 mM); Clear solution				
		2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (3.47 mM); Clear solution				
		one by one: 10% DMSO >> 90% cor g/mL (3.47 mM); Clear solution	n oil			

BIOLOGICAL ACTIV	
Description	EPZ-011989 trifluoroacetate is a potent and orally active Zeste Homolog 2 (EZH2) inhibitor with metabolic stability. EPZ- 011989 trifluoroacetate has inhibitory inhibition for EZH2 with a K _i value of <3 nM. EPZ-011989 trifluoroacetate shows robust methyl mark inhibition and anti-tumor activity. EPZ-011989 trifluoroacetate can be used for the research of various cancers ^[1] . EPZ011989 (trifluoroacetate) 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 ₅₀ & Target	EZH2
In Vitro	EPZ-011989 trifluoroacetate inhibits mutant and wild-type EZH2 with an K_i value of <3 nM ^[1] .



	EPZ-011989 trifluoroace EPZ-011989 trifluoroace MCE has not independe Cell Proliferation Assay	etate (0-10 μM; 11 day ently confirmed the ac	/s) has anti-µ	proliferation e	effect in WSU-	-DLCL2 cells ^{[:}		
	Cell Line:	WSU-DLCL2 of	ells					
	Concentration:	0-10 μΜ						
	Incubation Time:	11 days						
	Result:	Demonstrated an average lowest cytotoxic concentration (LCC) in WSU-DLCL2 cells of 208 nM.						
In Vivo	EPZ-011989 trifluoroace inhibition and antitume MCE has not independe	or activity ^[1] .						mark
	Animal Model:	SCID mice ^[1]	SCID mice ^[1]					
	Dosage:	125, 250, 500	125, 250, 500, and 1000 mg/kg					
	Administration:	Oral; single, t	Oral; single, twice-daily (BID)for 7 days or twice-daily (BID)for 21 days					
	Result:	Provided coverage over the LCC for 24 h (1000 mg/kg), while the 250 and 500 mg/kg doses provided coverage over this value for approximately 8 h. Observed complete ablation of the methyl mark by the end of day 7. Showed robust tumor growth inhibition, methyl mark reduction and extended total and free plasma exposure time.						
		Rat ^[1]						
	Animal Model:	Rat ^[1]						
	Animal Model: Dosage:	Rat ^[1] 30, 100, and 3	00 mg/kg					
			00 mg/kg					
	Dosage:	30, 100, and 3	00 mg/kg route	t _{1/2} (h)	t _{max} (h)	C _{max} (ng/mL)	AUC _{inf} (h*ng/mL)	time above LCC (h)
	Dosage: Administration:	30, 100, and 3 Oral, single dose		t _{1/2} (h) 4.7	t _{max} (h) 2			
	Dosage: Administration:	30, 100, and 3 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.

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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.

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