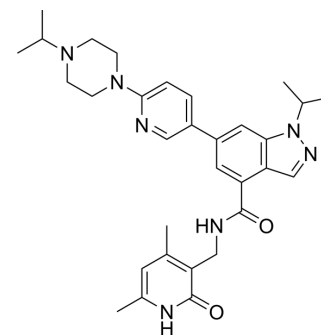


EZH2-IN-14

Cat. No.:	HY-148458		
CAS No.:	1979157-17-9		
Molecular Formula:	C ₃₁ H ₃₉ N ₇ O ₂		
Molecular Weight:	541.69		
Target:	Histone Methyltransferase		
Pathway:	Epigenetics		
Storage:	Powder	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 125 mg/mL (230.76 mM; ultrasonic and warming and heat to 60°C)

Solvent	Mass	Concentration		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	1.8461 mL	9.2304 mL	18.4607 mL
	5 mM	0.3692 mL	1.8461 mL	3.6921 mL
	10 mM	0.1846 mL	0.9230 mL	1.8461 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: ≥ 2.08 mg/mL (3.84 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.08 mg/mL (3.84 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.08 mg/mL (3.84 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

EZH2-IN-14 is a selective EZH2 (Histone Methyltransferase) inhibitor with an IC₅₀ of 12 nM. EZH2-IN-14 inhibits the methyltransferase activity of EZH2/PRC2 (that is, reducing H3K27me3). EZH2-IN-14 shows >200-fold selective for EZH2 over the highly homologous H3K27 methyltransferase EZH1^[1].

In Vitro

EZH2-IN-14 (C24) effectively reduces the H3K27me3 and H3K27me2 marks. EZH2-IN-14 has little effect on the level of EZH2 protein in MDA-MB-468 cells^[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.
Cell Viability Assay^[1]

Cell Line:	MDA-MB-468 cells
Concentration:	4 μ M
Incubation Time:	6 hours, 12 hours, 24 hours, 48 hours
Result:	Reduced the H3K27me3 and H3K27me2 marks.

REFERENCES

[1]. Anqi Ma, et al. Discovery of a first-in-class EZH2 selective degrader. Nat Chem Biol. 2020 Feb;16(2):214-222.

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

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