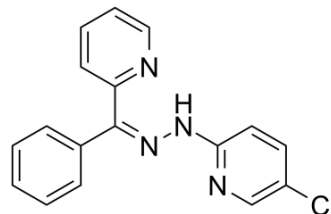


## (Z)-JIB-04

Cat. No.:	HY-107842		
CAS No.:	199596-24-2		
Molecular Formula:	C <sub>17</sub> H <sub>13</sub> ClN <sub>4</sub>		
Molecular Weight:	308.76		
Target:	Others		
Pathway:	Others		
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 : 6 mg/mL (19.43 mM; Need ultrasonic)			
		Solvent Concentration	Mass	
			1 mg	5 mg
	Preparing Stock Solutions		10 mg	
	1 mM	3.2388 mL	16.1938 mL	32.3876 mL
	5 mM	0.6478 mL	3.2388 mL	6.4775 mL
	10 mM	0.3239 mL	1.6194 mL	3.2388 mL
Please refer to the solubility information to select the appropriate solvent.				
In Vivo	<ol style="list-style-type: none"> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 40% PEG300 &gt;&gt; 5% Tween-80 &gt;&gt; 45% saline Solubility: ≥ 0.6 mg/mL (1.94 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% (20% SBE-β-CD in saline) Solubility: ≥ 0.6 mg/mL (1.94 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% corn oil Solubility: ≥ 0.6 mg/mL (1.94 mM); Clear solution</li> </ol>			

### BIOLOGICAL ACTIVITY

Description	(Z)-JIB-04 (NSC693627) is the Z isomer of JIB-04 that has two forms, E (HY-13953) and Z isomers. (Z)-JIB-04 is inactive in epigenetic analysis <sup>[1]</sup> .
In Vitro	JIB-04 inhibits the demethylase activity of Jumonji enzymes in vitro and in cells, without affecting other α-ketoglutarate dependent hydroxylases or histone modifying enzymes <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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## REFERENCES

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[1]. Wang L, et al. A small molecule modulates Jumonji histone demethylase activity and selectively inhibits cancer growth. Nat Commun. 2013;4:2035.

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

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