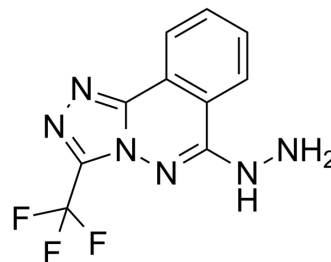


## PCAF-IN-2

<b>Cat. No.:</b>	HY-147895		
<b>CAS No.:</b>	56173-05-8		
<b>Molecular Formula:</b>	C <sub>10</sub> H <sub>7</sub> F <sub>3</sub> N <sub>6</sub>		
<b>Molecular Weight:</b>	268.2		
<b>Target:</b>	Histone Acetyltransferase; Apoptosis		
<b>Pathway:</b>	Epigenetics; Apoptosis		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 8.33 mg/mL (31.06 mM; ultrasonic and warming and heat to 80°C)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	<b>Preparing Stock Solutions</b>	1 mM	3.7286 mL	18.6428 mL	37.2856 mL
		5 mM	0.7457 mL	3.7286 mL	7.4571 mL
10 mM		0.3729 mL	1.8643 mL	3.7286 mL	
Please refer to the solubility information to select the appropriate solvent.					
<b>In Vivo</b>	1. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 0.83 mg/mL (3.09 mM); Clear solution				

### BIOLOGICAL ACTIVITY

<b>Description</b>	PCAF-IN-2 (compound 17) is a potent PCAF inhibitor with an IC <sub>50</sub> value of 5.31 μM. PCAF-IN-2 shows anti-tumour activity. CAF-IN-2 induces apoptosis and arrest the cell cycle at the G2/M phase <sup>[1]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	PCAF 5.31 μM (IC <sub>50</sub> )
<b>In Vitro</b>	PCAF-IN-2 shows anti-tumour activity with IC <sub>50</sub> s of 3.06, 5.69, 7.56, 2.83 μM for HePG2, MCF-7, PC3, HCT-116 cells, respectively <sup>[1]</sup> . PCAF-IN-2 (10 μM; 24 h) induces apoptosis and arrest the cell cycle at the G2/M phase in HePG2 cells <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]. Turky A, et al. Design, synthesis, and antitumor activity of novel compounds based on 1,2,4-triazolophthalazine scaffold: Apoptosis-inductive and PCAF-inhibitory effects. Bioorg Chem. 2020 Aug;101:104019.

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

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