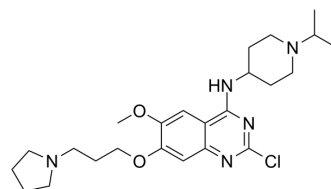


## G9a-IN-1

Cat. No.:	HY-44062
CAS No.:	1350752-07-6
Molecular Formula:	C <sub>24</sub> H <sub>36</sub> ClN <sub>5</sub> O <sub>2</sub>
Molecular Weight:	462.03
Target:	Histone Methyltransferase
Pathway:	Epigenetics
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



### SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (216.44 mM; Need ultrasonic)						
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg	
				1 mM	2.1644 mL	10.8218 mL	21.6436 mL
				5 mM	0.4329 mL	2.1644 mL	4.3287 mL
				10 mM	0.2164 mL	1.0822 mL	2.1644 mL
Please refer to the solubility information to select the appropriate solvent.							
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (5.41 mM); Clear solution						
	2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (5.41 mM); Clear solution						

### BIOLOGICAL ACTIVITY

Description	G9a-IN-1 (Compound 113) is a G9a protein inhibitor. G9A/EHMT2 is a nuclear histone lysine methyltransferase that catalyzes histone H3 lysine 9 dimethylation (H3K9me2), which is a reversible modification generally associated with transcriptional gene silencing. G9a-IN-1 can be used for the research of autoimmune disorders or cancer <sup>[1]</sup> .
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### REFERENCES

[1]. Dimitrios Iliopoulos, et al. Small molecules for the treatment of autoimmune diseases and cancer. WO2022031939A1

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

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