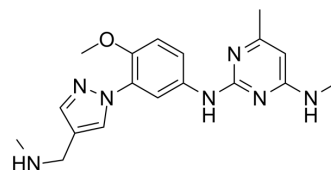


## EHMT2-IN-1

Cat. No.:	HY-111778		
CAS No.:	2230849-55-3		
Molecular Formula:	C <sub>18</sub> H <sub>23</sub> N <sub>7</sub> O		
Molecular Weight:	353.42		
Target:	Histone Methyltransferase		
Pathway:	Epigenetics		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



### SOLVENT & SOLUBILITY

In Vitro	DMSO : 55 mg/mL (155.62 mM; Need ultrasonic)			
		Solvent Concentration	Mass	
			1 mg	5 mg
			10 mg	
Preparing Stock Solutions	1 mM	2.8295 mL	14.1475 mL	28.2949 mL
	5 mM	0.5659 mL	2.8295 mL	5.6590 mL
	10 mM	0.2829 mL	1.4147 mL	2.8295 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: ≥ 0.92 mg/mL (2.60 mM); Clear solution			
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 0.92 mg/mL (2.60 mM); Clear solution			
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 0.92 mg/mL (2.60 mM); Clear solution			

### BIOLOGICAL ACTIVITY

Description	EHMT2-IN-1 is a potent EHMT inhibitor, with IC <sub>50</sub> s of all <100 nM for EHMT1 peptide, EHMT2 peptide and cellular EHMT2. Used in the research of blood disorder or cancer <sup>[1]</sup> .		
IC <sub>50</sub> & Target	EHMT1 PEP <100 nM (IC <sub>50</sub> )	EHMT2 PEP <100 nM (IC <sub>50</sub> )	EHMT2 ICW <100 nM (IC <sub>50</sub> )
In Vitro	EHMT2-IN-1 (Compound 108) potent EHMT inhibitor, with IC <sub>50</sub> s of all <100 nM for EHMT1 peptide, EHMT2 peptide and		

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cellular EHMT2<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]. John Emmerson Campbell, et al. Amine-substituted heterocyclic compounds as ehmt2 inhibitors and methods of use thereof. WO2018118842A1

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA