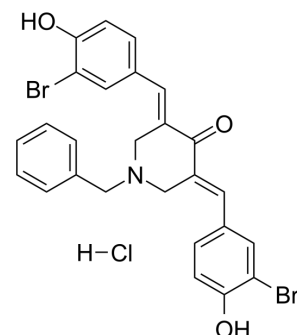


CARM1-IN-1 hydrochloride

Cat. No.:	HY-12759A
CAS No.:	2070018-31-2
Molecular Formula:	C ₂₆ H ₂₂ Br ₂ ClNO ₃
Molecular Weight:	591.72
Target:	Histone Methyltransferase
Pathway:	Epigenetics
Storage:	4°C, sealed storage, away from moisture * The compound is unstable in solutions, freshly prepared is recommended.



SOLVENT & SOLUBILITY

In Vitro	DMSO : 250 mg/mL (422.50 mM; Need ultrasonic)					
	H ₂ O : < 0.1 mg/mL (insoluble)					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
			1 mM	1.6900 mL	8.4499 mL	16.8999 mL
			5 mM	0.3380 mL	1.6900 mL	3.3800 mL
10 mM			0.1690 mL	0.8450 mL	1.6900 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 (4.22 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.5 mg/mL (4.22 mM); Suspended solution; Need ultrasonic					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: 2.08 mg/mL (3.52 mM); Clear solution; Need ultrasonic					

BIOLOGICAL ACTIVITY

Description	CARM1-IN-1 hydrochloride is a potent and specific CARM1 (Coactivator-associated arginine methyltransferase 1) inhibitor with IC ₅₀ of 8.6 μM; shows very low activity against PRMT1 and SET7.
IC ₅₀ & Target	PRMT4

CUSTOMER VALIDATION

-
- Sci Bull. 64 (2019) 986-997.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Cheng D, et al. Novel 3,5-bis(bromohydroxybenzylidene)piperidin-4-ones as coactivator-associated arginine methyltransferase 1 inhibitors: enzyme selectivity and cellular activity. J Med Chem. 2011 Jul 14;54(13):4928-32.

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

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