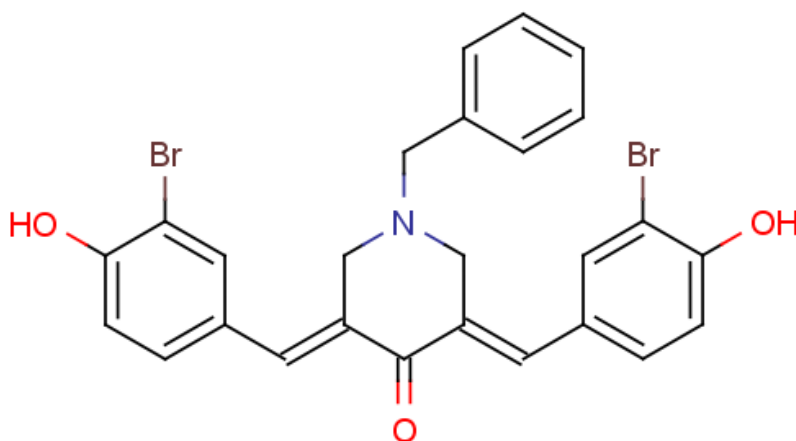


Name: CARM1-IN-1 cat#: EX-A8256

Target:: Histone Methyltransferase

Pathway: Epigenetics

Chemical Structure:



Chemical Name	3,5-Bis[(3-bromo-4-hydroxyphenyl)methylene]-1-(phenylmethyl)-4-piperidinone		
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Molecular Weight	555.258	Storage	3 years -20°C powder
Formula	C ₂₆ H ₂₁ Br ₂ NO ₃		6 months -80°C in solvent Away from light
CAS No.	1020399-49-8	Synonyms	

Solubility (25°C) *	In vitro	DMSO	Soluble, >20mg/mL (Need ultrasonic)
		Ethanol	N/A
		Water	N/A
	In vivo (should be freshly prepared each time)		

* <1 mg/ml means slightly soluble or insoluble.

* Please note that Selleck tests the solubility of all compounds in-house, and the actual solubility may differ slightly from published values. This is normal and is due to slight batch-to-batch variations.

Preparing Stock Solutions:

Mass Volume Concentration	1 mg	5 mg	10 mg
1 mM	1.8010 mL	9.0048 mL	18.0096 mL
5 mM	0.3602 mL	1.8010 mL	3.6019 mL
10 mM	0.1801 mL	0.9005 mL	1.8010 mL

*The above data is based on the product molecular weight 555.26.

In Vivo (Solubility)	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: $\geq$ 2.5 mg/mL (4.50 mM); Clear solution 2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE- β -CD in saline) Solubility: 2.5 mg/mL (4.50 mM); Suspended solution; Need ultrasonic
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Biological Activities:

Description	CARM1-IN-1 is a potent and specific CARM1 (Coactivator-associated arginine methyltransferase 1) inhibitor with IC ₅₀ of 8.6 μ M; shows very low activity against PRMT1 and SET7 (IC ₅₀ > 600 μ M).
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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.
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