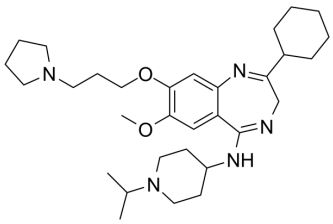
EML741

Cat. No.:	HY-111544
CAS No.:	2328074-38-8
Molecular Formula:	$C_{31}H_{49}N_5O_2$
Molecular Weight:	523.75
Target:	Histone Methyltransferase
Pathway:	Epigenetics
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	EML741 is a histone lysine methyltransferase G9a/GLP inhibitor, with an IC_{50} of 23 nM, K_d of 1.13 μM for G9a. EML741 also inhibits DNMT1 (IC_{50}, 3.1 μM), with no effect on DNMT3a or DNMT3b. EML741 exhibits low cell toxicity, and is membrane permeable and blood-brain barrier penetrated[1].			
IC_{50} & Target	G9a 23 nM (IC_{50})	G9a 1.13 μM (Kd)	GLP	DNMT1 3.1 μM (IC_{50})
In Vitro	EML741 (Compound 12a) shows a similar high inhibition potency against G9a (97%, 98% inhibition at 10 μM and 25 μM, respectively) and GLP (95%, 98% inhibition at 10 μM and 25 μM, respectively)[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.			

REFERENCES

[1]. Milite, et al. Discovery of a Novel Chemotype of Histone Lysine Methyltransferase EHMT1/2 (GLP/G9a) Inhibitors: Rational Design, Synthesis, Biological Evaluation, and Co-crystal Structure. J Med Chem. 2019 Mar 14;62(5):2666-2689.

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