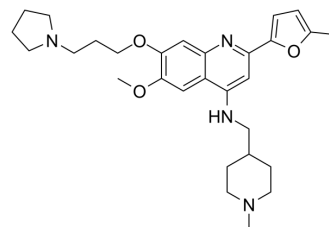


CM-579

Cat. No.:	HY-117421
CAS No.:	1846570-40-8
Molecular Formula:	C ₂₉ H ₄₀ N ₄ O ₃
Molecular Weight:	492.65
Target:	Histone Methyltransferase; DNA Methyltransferase
Pathway:	Epigenetics
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	CM-579 is a first-in-class reversible, dual inhibitor of G9a and DNMT, with IC ₅₀ values of 16 nM, 32 nM for G9a and DNMT, respectively. Has potent in vitro cellular activity in a wide range of cancer cells ^[1] .			
IC₅₀ & Target	DNA Methyltransferase	DNMT1	DNMT3A	DNMT3B
	32 nM (IC ₅₀)	1.5 nM (K _d)	92 nM (IC ₅₀)	1000 nM (IC ₅₀)
	G9a			
	16 nM (IC ₅₀)			
In Vitro	The K _d of CM-579 for DNMT1 is 1.5 nM, CM-579 also inhibits DNMT3A and DNMT3B, with IC ₅₀ s of 92 nM and 1000 nM, respectively ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.			

REFERENCES

[1]. San José-Enériz E, et al. Discovery of first-in-class reversible dual small molecule inhibitors against G9a and DNMTs in hematological malignancies. Nat Commun. 2017 May 26;8:15424.

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