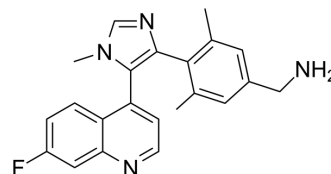


BI-9321

Cat. No.:	HY-114208
CAS No.:	2387510-86-1
Molecular Formula:	C ₂₂ H ₂₁ N ₄
Molecular Weight:	360.43
Target:	Histone Methyltransferase
Pathway:	Epigenetics
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	BI-9321 is a potent, selective and cellular active nuclear receptor-binding SET domain 3 (NSD3)-PWWP1 domain antagonist with a K _d value of 166 nM. BI-9321 is inactive against NSD2-PWWP1 and NSD3-PWWP2. BI-9321 specifically disrupts histone interactions of the NSD3-PWWP1 domain with an IC ₅₀ of 1.2 μM in U2OS cells ^[1] .
IC₅₀ & Target	K _d : 166 nM (NSD3-PWWP1) ^[1]
In Vitro	BI-9321 is targeting the methyl-lysine binding site of the PWWP1 domain with sub-micromolar in vitro activity and cellular target engagement at 1 μM. As a single agent, BI-9321 downregulates Myc messenger RNA expression and reduces proliferation in MOLM-13 cells ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Böttcher J, et al. Fragment-based discovery of a chemical probe for the PWWP1 domain of NSD3. Nat Chem Biol. 2019 Aug;15(8):822-829.

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