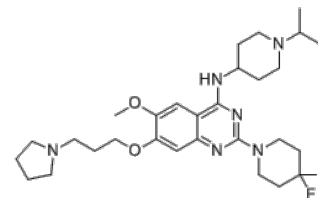


Product Name : UNC0642
Cat. No. : PC-49728
CAS No. : 1481677-78-4
Molecular Formula : C₂₉H₄₄F₂N₆O₂
Molecular Weight : 546.71
Target : Histone Methyltransferase (HMTase)
Solubility : 10 mM in DMSO



Biological Activity

UNC0642 (UNC 0642) is a potent and selective **G9a** and **GLP** histone lysine methyltransferase inhibitor with IC₅₀ of <2.5 nM. UNC0642 displays >2,000-fold selectivity for G9a and GLP over PRC2-EZH2 and >20,000-fold selectivity over other methyltransferases.

UNC0642 reduces H3K9 dimethylation levels with IC₅₀ of <150 nM in U2OS, PC3, and PANC-1 cells, exhibits excellent potency (IC₅₀ = 40 nM) in PANC-1 cells.

UNC0642 reduces clonogenicity in PANC-1 cells in a concentration-dependent manner while it had no effect on clonogenicity in MDA-MB-231 cells.

References

Feng Li, et al. *J Med Chem*. 2013 Nov 14;56(21):8931-42.

Sebastian Scheer, et al. *Nat Commun*. 2019 Jan 3;10(1):19.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

E-mail: tech@probechem.com