
UNC0646

产品编号: D50850

CAS: 1320288-17-2

分子式: C₃₆H₅₉N₇O₂

纯度: ≥98%

InChi: InChI=1S/C₃₆H₅₉N₇O₂/c1-28(2)41-19-10-20-43(24-23-41)36-38-32-27-34(45-25-11-18-40-16-8-5-9-17-40)33(44-3)26-31(32)35(39-36)37-29-14-21-42(22-15-29)30-12-6-4-7-13-30/h26-30H, 4-25H₂,1-3H₃, (H,37,38,39)

InChi Key: OUKWLRHRXOPDD-UHFFFAOYSA-N

Smiles: CC(C)N1CCN(CCC1)C1=NC2=CC(OCCCN3CCCCC3)=C(C=C2C(NC2CCN(CC2)C2CCCCC2)=N1)O
C

外观: 固体粉末

作用通路: Histone Methyltransferase

溶解性: DMSO up to 100 mM

保存条件: Store in dry, dark place for one year.

产品介绍: UNC0646 is a novel potent, selective and cell permeable inhibitor of the homologous protein lysine methyltransferases, G9a and GLP, with IC₅₀ ~6 nM and 15 nM for G9a and GLP, respectively. It potently inhibits G9a/GLP methyltransferase activity in cells (IC₅₀ ~10 nM in MCF7 cells), and exhibits low toxicity. It is highly selective for G9a/GLP over several other protein lysine and arginine methyltransferases. UNC0646 did not affect G9a co-activator function but selectively decreased G9a co-repressor function for endogenous target genes.