
SGC707

产品编号: D50905

CAS: 1687736-54-4

分子式: C₁₆H₁₈N₄O₂

纯度: ≥98%

InChi: InChi=1S/C₁₆H₁₈N₄O₂/c21-15(20-7-1-2-8-20)11-18-16(22)19-14-4-3-13-10-17-6-5-12(13)9-14/h3-6,9-10H,1-2,7-8,11H₂, (H₂,18,19,22)

InChi Key: DMIDPTCQPIJYFE-UHFFFAOYSA-N

Smiles: O=C(CNC(=O)NC1C=C2C=CN=CC2=CC=1)N1CCCC1

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: SGC707 is a potent, selective and cell-active allosteric inhibitor of protein arginine methyltransferase 3 (PRMT3). SGC707 is a potent PRMT3 inhibitor (IC₅₀ = 31 ± 2 nM, K_D = 53 ± 2 nM) with outstanding selectivity (selective against 31 other methyltransferases and more than 250 non-epigenetic targets). The mechanism of action studies and crystal structure of the PRMT3-SGC707 complex confirm the allosteric inhibition mode. Importantly, SGC707 engages PRMT3 and potently inhibits its methyltransferase activity in cells. It is also bioavailable and suitable for animal studies. This well-characterized chemical probe is an excellent tool to further study the role of PRMT3 in health and disease.