
LLY-507

产品编号: D50918

CAS: 1793053-37-8

分子式: C₃₆H₄₂N₆O

纯度: ≥98%

InChi: InChI=1S/C₃₆H₄₂N₆O/c1-28-27-42(34-11-4-2-9-32(28)34)22-19-40-17-20-41(21-18-40)35-12-5-3-10-33(35)30-23-29(26-37)24-31(25-30)36(43)38-13-8-16-39-14-6-7-15-39/h2-5,9-12,23-25,27H,6-8,13-22H₂,1H₃, (H,38,43)

InChi Key: PNYRDVBFYVDJJI-UHFFFAOYSA-N

Smiles: CC1=CN(CCN2CCN(CC2)C2C=CC=CC=2C2=CC(=CC(=C2)C#N)C(=O)NCCCN2CCCC2)C2=CC=CC=C21

外观: 固体粉末

作用通路: Histone Methyltransferase

溶解性: DMSO up to 50 mM

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

产品介绍: LLY-507 is a potent, selective and cell permeable protein lysine methyltransferase SMYD2 inhibitor with IC₅₀ <15 nM. It binds in the substrate peptide-binding pocket. It has >100-fold selectivity over other methyltransferases and other non-epigenetic targets. LLY-507 has been shown to inhibit p53K370 monomethylation in cells with an IC₅₀ ~600 nM. It inhibited the proliferation of several esophageal, liver, and breast cancer cell lines in a dose-dependent manner. LLY-507 serves as a valuable chemical probe to aid in the dissection of SMYD2 function in cancer and other biological processes.