
mpi-0479605

产品编号: D51143

CAS: 1246529-32-7

分子式: C₂₂H₂₉N₇O

纯度: ≥98%

InChi: InChi=1S/C₂₂H₂₉N₇O/c1-15-13-17(29-9-11-30-12-10-29)7-8-18(15)26-22-27-20-19(23-14-24-20)21(28-22)25-16-5-3-2-4-6-16/h7-8,13-14,16H,2-6,9-12H₂,1H₃,(H₃,23,24,25,26,27,28)

InChi Key: OVJBKNHJGSA-UHFFFAOYSA-N

Smiles: CC1C=C(C=CC=1NC1N=C(NC2CCCCC2)C2N=CNC=2N=1)N1CCOCC1

外观: 固体粉末

作用通路: Apoptosis

溶解性: Soluble in DMSO, not in water

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

产品介绍: MPI-0479605 is a potent and selective ATP competitive inhibitor of Mps1. Cells treated with MPI-0479605 undergo aberrant mitosis, resulting in aneuploidy and formation of micronuclei. In cells with wild-type p53, this promotes the induction of a postmitotic checkpoint characterized by the ATM- and RAD3-related-dependent activation of the p53-p21 pathway. In both wild-type and p53 mutant cells lines, there is a growth arrest and inhibition of DNA synthesis. Subsequently, cells undergo mitotic catastrophe and/or an apoptotic response. In xenograft models, MPI-0479605 inhibits tumor growth, suggesting that drugs targeting Mps1 may have utility as novel cancer therapeutics.