
BMH-21

产品编号: D51634

CAS: 896705-16-1

分子式: C₂₁H₂₂N₄O₂

纯度: ≥98%

InChi: InChI=1S/C₂₁H₂₂N₄O₂/c1-24(2)11-9-22-20(26)16-8-5-10-25-19(16)23-18-13-15-7-4-3-6-14(15)
12-17(18)21(25)27/h3-8,10,12-13,17-18H,9,11H₂,1-2H₃, (H,22,26)

InChi Key: FSCFXLAGKOPMP-UHFFFAOYSA-N

Smiles: CN(C)CCNC(=O)C1=CC=CN2C1=NC1C=C3C=CC=CC3=CC1C2=O

外观: 固体粉末

作用通路: DNA/RNA Synthesis

溶解性: Soluble in DMSO, not in water

保存条件: Store at -20°C. Store under desiccating conditions.

产品介绍: BMH-21 is a potent small molecule DNA intercalator. BMH-21 binds ribosomal DNA and inhibits RNA polymerase I (Pol I) transcription. BMH-21 does not cause phosphorylation of H2AX, a key biomarker activated in DNA damage stress. BMH-21 effects on the nucleolar stress response were independent of major DNA damage associated PI3-kinase pathways, ATM, ATR and DNA-PKcs. BMH-21 is a chemically unique DNA intercalator that has high bioactivity towards Pol I inhibition without activation or dependence of DNA damage stress. The findings also show that interference with DNA and DNA metabolic processes can be exploited therapeutically without causing DNA damage.