
RU-SKI 43

产品编号: D50773

CAS: 1043797-53-0

分子式: C₂₂H₃₀N₂O₂S

纯度: ≥98%

InChi: InChi=1S/C₂₂H₃₀N₂O₂S/c1-4-16(2)13-23-14-22(25)24-10-8-21-19(9-11-27-21)20(24)15-26-18-7-5-6-17(3)12-18/h5-7,9,11-12,16,20,23H,4,8,10,13-15H2,1-3H3

InChi Key: AEENEMOEBJOKGN-UHFFFAOYSA-N

Smiles: CC1C=C(C=CC=1)OCC1C2C=CSC=2CCN1C(=O)CNCC(C)CC

外观: 固体粉末

作用通路: Hedgehog

溶解性: DMSO up to 100 mM

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

产品介绍: RU-SKI 43 is the first potent and specific small molecule inhibitor of Hedgehog acyltransferase (Hhat), and directly inhibits palmitoylation of the Shh ligand. It was discovered by a high-throughput screen using a peptide-based assay to monitor Hhat-mediated Shh palmitoylation (IC₅₀ ~0.85 μM). In vitro using purified Hhat and ShhN to analyze the kinetics of compound's inhibition of ShhN palmitoylation, RU-SKI 43 behaved as an uncompetitive inhibitor (K_i = 7.4 μM) with respect to Shh and as a noncompetitive inhibitor (K_i = 6.9 μM) with respect to [125I]iodo-palmitoyl CoA. In cells, RU-SKI 43 specifically blocks Shh palmitoylation and inhibits autocrine and paracrine Shh signaling. Hhat inhibitor could offer a new treatment modality for cancers characterized by Shh overexpression and extremely poor prognoses.