
SKI-II

产品编号: D51490

CAS: 312636-16-1

分子式: C₁₅H₁₁ClN₂O₂S

纯度: ≥98%

InChi: InChi=1S/C₁₅H₁₁ClN₂O₂S/c16-11-3-1-10(2-4-11)14-9-20-15(18-14)17-12-5-7-13(19)8-6-12/h1-9,19H,(H,17,18)

InChi Key: ZFGXZJKLOFCECI-UHFFFAOYSA-N

Smiles: OC1C=CC(=CC=1)NC1=NC(=CS1)C1C=CC(Cl)=CC=1

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: SKI-II is a selective non-lipid inhibitor of sphingosine kinase (IC₅₀ = 0.5 μM). It inhibits acute myelogenous leukemia cell growth in vitro and in vivo. SKI-II was more efficient than two known SphK1 inhibitors SKI-I and FTY720 in inhibiting AML cells. Meanwhile, it induced dramatic apoptosis in above AML cells, and the cytotoxicity by SKI-II was almost reversed by the general caspase inhibitor z-VAD-fmk. SKI-II treatment inhibited SphK1 activation, and concomitantly increased level of sphingosine-1-phosphate (S1P) precursor ceramide in AML cells.