
CIL56

产品编号: D62170

CAS: 300802-28-2

分子式: C₂₃H₂₇N₃O₅S₂

纯度: 98%

InChi Key: InChIKey=XYZXEEIUKQGUHB-UHFFFAOYSA-N

Smiles: O\N=C1/c2cc(ccc2-c2ccc(cc12)S(=O)(=O)N1CCCCC1)S(=O)(=O)N1CCCCC1

外观: 固体粉末

作用通路: Apoptosis

作用靶点: Ferroptosis; ROS

溶解性: Soluble in DMSO

保存条件: -20°C

产品介绍: CIL56 is a small molecule that induces cellular ferroptosis through the production of iron-dependent reactive oxygen species (ROS). It also induces accumulation of long-chain saturated, monounsaturated, and polyunsaturated fatty acids in HT-1080 cells in vitro. HT-1080 cells lacking acetyl-CoA carboxylase 1 (ACC1), the rate-limiting enzyme in fatty acid synthesis, exhibit 5-fold resistance to CIL56 treatment, indicating ACC1 activity sensitizes cells to CIL56-induced cell death.