
R-GNE-140

产品编号: D51598

CAS: 2003234-63-5

分子式: C₂₅H₂₃ClN₂O₃S₂

纯度: ≥98%

InChi: InChI=1S/C₂₅H₂₃ClN₂O₃S₂/c26-20-3-1-2-4-22(20)33-23-21(29)15-25(27-24(23)30,18-9-14-32-16-18)17-5-7-19(8-6-17)28-10-12-31-13-11-28/h1-9,14,16,29H,10-13,15H₂,17,27,30/t25-/m1/s1

InChi Key: SUFXXEIVBZJOAP-RUZDIDTESA-N

Smiles: OC1C[C@](NC(=O)C=1SC1C=CC=CC=1Cl)(C1=CSC=C1)C1C=CC(=CC=1)N1CCOCC1

外观: 固体粉末

作用通路: Lactate Dehydrogenase

溶解性: Soluble in DMSO

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

产品介绍: R-GNE-140 a novel potent lactate dehydrogenase (LDHA) inhibitor with IC₅₀ 3nM for LDHA and 5 nM for LDHB. In MIA PaCa-2 human pancreatic cells, LDHA inhibition rapidly affected global metabolism, although cell death only occurred after 2 d of continuous LDHA inhibition. Pancreatic cell lines that utilize oxidative phosphorylation (OXPHOS) rather than glycolysis were inherently resistant to GNE-140, but could be resensitized to GNE-140 with the OXPHOS inhibitor phenformin. Acquired resistance to GNE-140 was driven by activation of the AMPK-mTOR-S6K signaling pathway, which led to increased OXPHOS, and inhibitors targeting this pathway could prevent resistance.