www.bioss.com.cn
sales@bioss.com.cn
techsupport@bioss.com.cn
400-901-9800

COH29

产品编号: D51675

CAS: 1190932-38-7

分子式: C22H16N2O5S

纯度: ≥98%

InChi: InChI=1S/C22H16N2O5S/c25-15-8-6-13(10-17(15)27)19-20(12-4-2-1-3-5-12)30-22(23-19)24-21(29)14-7-9-16(26)18(28)11-14/h1-11,25-28H,(H,23,24,29)

InChi Key: LGGDLPSXAGQFSG-UHFFFAOYSA-N

Smiles: OC1C=CC(=CC=1O)C(=O)NC1=NC(=C(S1)C1C=CC=CC=1)C1=CC(O)=C(O)C=C1

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 in dry, dark place for one year.

产品介绍: COH29 is an orally available, aromatically substituted thiazole and inhibitor of the human ribonucleotide reductase (RNR), with potential antineoplastic activity. Upon oral administration, the RNR inhibitor COH29 binds to the ligand-binding pocket of the RNR M2 subunit (hRRM2) near the C-terminal tail. This blocks the interaction between the hRRM1 and hRRM2 subunits and interferes with the assembly of the active hRRM1/hRRM2 complex of RNR. Inhibition of RNR activity decreases the pool of deoxyribonucleotide triphosphates available for DNA synthesis. The resulting decrease in DNA synthesis causes cell cycle arrest and growth inhibition. In addition, this agent may inhibit the nuclear enzyme poly (ADP-ribose) polymerase (PARP) 1, which prevents the repair of damaged DNA, and causes both the accumulation of single and double strand DNA breaks and the induction of apoptosis.