

Catalog Number: CM00759

产品信息

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CM00759

CAS号:
144875-48-9

分子式:
C₁₇H₂₂N₄O₂

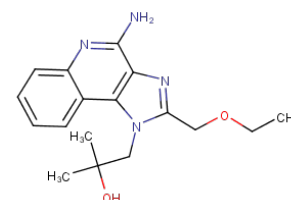
主要靶点:
HCV Protease|TLR

主要通路:
微生物学|蛋白酶体|免疫与炎症

分子量:
314.38

溶解度:

Ethanol:20 mg/mL (63.62 mM);
DMSO:55 mg/mL (174.95 mM);
H₂O:< 1 mg/mL (insoluble or slightly soluble);



体外活性

方法: 金绒球头肾淋巴细胞 HKL 用 Resiquimod (0.175-32 μg/mL) 处理 12 h, 使用 CCK8 assay 检测细胞活力。结果: CCK8 测定结果显示, 0.25-32 μg/mL Resiquimod 显著促进 HKL 增殖。[1] 方法: 外周血单核细胞 PBM 用 Resiquimod (0.01-100 μM) 处理 1-14 h, 使用 Western Blot 方法检测靶点蛋白表达水平。结果: 1 μM 的剂量足以改变 FcγR 的表达, 更高的剂量不会导致更大的变化。FcγRIIIa 的增加发生在晚期, 而 γ 链的小幅增加出现在 3 h, 但在 14 h 时更高。然而, FcγRIIb 蛋白在 1 h 内减少, 而 FcγRIIb 的转录物保持到 4 h。[2]

体内活性

方法: 为检测体内抗肿瘤活性, 将 Resiquimod (2 mg/kg) 和 4D5 抗 HER2 抗体 (20 mg/kg) 腹腔注射给携带 CT26-HER2/neu 肿瘤的 Balb/cJ 小鼠, 每周三次, 持续 13 天。结果: 13 天后, 接受 Resiquimod 加抗体的小鼠肿瘤的生长速率显著降低。统计测试显示 4D5 和 Resiquimod 在降低肿瘤生长速率方面具有协同作用。[2]

动物实验

Animal Models: Wild-type mice, TLR7-deficient mice, and MyD88-deficient mice. Formulation: saline. Dosages: 50 nmol. Administration: i.p.

细胞实验

Resiquimod is dissolved in DMSO. For inhibition of lysosomal acidification, cells are incubated with 10⁷ μM CQ for 1 h before Resiquimod (R848) treatment. After treatment, 20⁷ μL of 5⁷ mg/mL MTT is added to the plate. The plate is incubated at 22°C for 4 h, and 200⁷ μL dimethyl sulfoxide is added to the plate to dissolve the reduced formazan. The plate is then read at 490 nm with a microplate reader. To determine the effect of Myd88 inhibition on R848-induced cell proliferation, the Myd88 inhibitor Pepinh-MYD and the control peptide Pepinh-Control are added to PBL at the concentration of 50⁷ μM, and the plate is incubated at 22°C for 6 h. After incubation, the cells are treated with R848 and subjected to MTT assay as above. To determine the effect of NF-κB inactivation on R848-induced cell proliferation, BAY-11-7082, an irreversible inhibitor of IκB-α phosphorylation, is added to the cells at the concentration of 1⁷ μM, and the plate is incubated at 22°C for 1 h. After incubation, the cells are treated with R848 and subjected to MTT assay as earlier. All experiments are performed three times.

储存

store at low temperature | Powder: -20°C for 3 years | In solvent: -80°C for 1 year | Shipping with blue ice.