For Research Use Only

Nodinitib-1

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Catalog Number: CM05288

产品信息

Catalog Number:
CM05288

CAS号:
799264-47-4

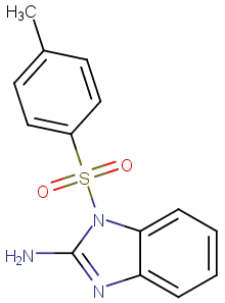
分子式:
$C_{14}H_{13}N_3O_2S$

主要靶点:
NOD-like Receptor (NLR)|TNF|NOD

主要通路:
凋亡|NF-κB 信号通路|免疫与炎症|免疫与炎症

分子量:
287.34

溶解度:
DMSO:28.7 mg/mL (100 mM);Ethanol:2.9 mg/mL (10 mM)



靶点活性

NOD1:0.56 μM

体外活性

Nodinitib-1展现出对NOD1诱导的NF-κB激活在HEK293细胞中的选择性抑制作用，且未表现出细胞毒性，因此被选为探针候选分子。Nodinitib-1还通过选择性抑制NOD1依赖的IL-8分泌以及选择性抑制NOD1依赖的通向NF-κB激活的路径，在次级检测中得到确认。[1] 在另一项研究中，Nodinitib-1被证实可引起NOD1的构象变化，并在体外以及细胞内改变NOD1的亚细胞定位，为探讨调节NOD1活性的机制提供化学探针，并为探索NOD1在各种传染性和炎症性疾病中的作用提供工具。[2]

细胞实验

Hepatic toxicity of compounds is determined with Fa2N-4 immortalized human hepatocytes using the ATP-lite 1-step assay. Fa2N-4 cells are seeded at 50,000 cells/well, and incubated with a range of concentrations of the test compound (0.01 μM-50 μM) in MFE support medium for 24 h at 37 ℃, 5% CO2. At the end of the experiment D-luciferin and luciferase are added. The emitted luminescent signal produced as a result of the reaction with cellular ATP is captured on the Infinite M200 plate reader. The concentration of each compound that killed 50% of the cells (LC50) is calculated by non-linear regression analysis using a log (inhibitior) vs response equation with a variable slope, using the statistic software package Prism4.(Only for Reference)

储存

keep away from direct sunlight,keep away from moisture | Powder: -20°C for 3 years | In solvent: -80°C for 1 year | Shipping with blue ice.