For Research Use Only

NOD-IN-1

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Catalog Number: CM05290

产品信息

Catalog Number:
CM05290

CAS号:
132819-92-2

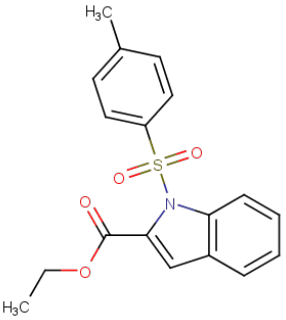
分子式:
$C_{18}H_{17}NO_4S$

主要靶点:
NOD|NOD-like Receptor (NLR)

主要通路:
NF-κB信号通路|免疫与炎症|免疫与炎症

分子量:
343.4

溶解度:
DMSO:55 mg/mL (160.16 mM)



靶点活性

NOD2:6.45 μM|NOD1:5.74 μM

体外活性

NOD-IN-1是一种对NOD1和NOD2的强效混合抑制剂，在低μM范围内对两个靶点显示出平衡的抑制活性。NOD-IN-1（IC50（NOD1）=5.74 μM；IC50（NOD2）=6.45 μM）被确认为系列中最佳，具有在较低μM范围的NOD1和NOD2抑制活性。这些结果表明，与Noditinib-1相比，NOD-IN-1在NOD1抑制方面的效力低7倍，且完全缺乏对NOD1或NOD2的选择性活性。NOD-IN-1在这两个靶点上展现出不到10 μM的平衡双重活性。

细胞实验

NOD-IN-1 is dissolved in DMSO and stored, and then diluted with appropriate medium before use[1]. An MTS assay in which the proliferation rates of HEK-Blue NOD1 cells are measured in the presence of Noditinib-1 and of the synthesized potential NOD1 inhibitor NOD-IN-1 is employed to screen these compounds for potential cytotoxicity. Cells are treated for 24 h with the compound of interest at concentrations of up to 25 μM. Comparison of the resulting metabolic activities with that of the untreated control showed that all compounds are well tolerated by HEK-Blue NOD1 cells, since their residual metabolic activities do not fall below 80% at the maximum concentration tested[1].

储存

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