

Catalog Number: CM05481

产品信息

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CM05481

CAS号:
178946-89-9

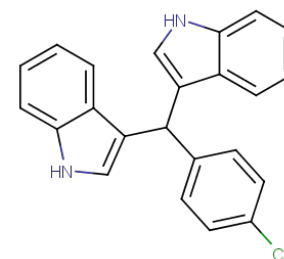
分子式:
 $C_{23}H_{17}ClN_2$

主要靶点:
Apoptosis|Others

主要通路:
凋亡

分子量:
356.85

溶解度:
Ethanol:35.7 mg/mL (100 mM);DMSO:50 mg/mL (140.11 mM)



体外活性

C-DIM12在细胞系和原代神经元中诱导Nurr1和DA基因表达[3]。此化合物还能抑制体外星形胶质细胞的炎症信号。C-DIM12抑制脂多糖(LPS)诱导的BV-2微胶质细胞中NF- κ B调控基因的表达,包括一氧化氮合酶(NOS2)、白细胞介素-6(IL-6)及趋化因子(C-C动机)配体2(CCL2),其效果通过Nurr1-RNA干扰而减弱。此外,C-DIM12降低了NF- κ B-GFP(绿色荧光蛋白)报告细胞中NF- κ B的激活,并增强了Nurr1在原代小胶质细胞核内的转移。C-DIM12减少了脂多糖诱导的p65与NOS2启动子的结合,并同时增强了Nurr1与p65结合位点的结合。C-DIM12还稳定了对抑制因子1沉默转录因子(CoREST)和核受体辅助抑制蛋白2(NCOR2)[2]的结合。

体内活性

C-DIM12在MPTP处理的小鼠中具有神经保护活性[2]。

细胞实验

NF- κ B-GFP HEK cells are exposed to 30 ng/ml of TNF α in the presence of 100 μ M C-DIM12 for up to 24 hours. C-DIM12 is efficient at blocking NF- κ B-GFP expression in the NF- κ B-GFP HEK cells after TNF α treatment, displaying a statistically significant reduction in total GFP fluorescence per cell.(Only for Reference)

储存

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