

Catalog Number: CM04705

产品信息

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CM04705

CAS号:
65678-07-1

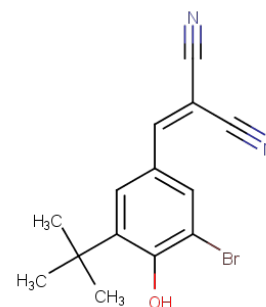
分子式:
C₁₄H₁₃BrN₂O

主要靶点:
Apoptosis|IGF-1R

主要通路:
蛋白酪氨酸激酶|凋亡

分子量:
305.17

溶解度:
H₂O:< 1 mg/mL (insoluble or slightly soluble);DMSO:57 mg/mL (186.78 mM);Ethanol:< 1 mg/mL (insoluble or slightly soluble)



靶点活性

IGF-1R:7 μM|Insulin Receptor:57 μM

体外活性

在携带有Ba / F3-p210异种移植小鼠中,AG-1024 (30 μg) 施用10天能够显著抑制肿瘤生长.

体内活性

AG-1024能够阻断IGF-1受体 (IC₅₀=7 μM) 和IR (IC₅₀=57 μM) 自磷酸化。在MCF-7细胞中,AG-1024 (10 μM) 能够下调磷酸化Akt1和bcl-2,上调Bax,p53和p21,从而抑制细胞增殖。

细胞实验

Cells are exposed to AG-1024 for 24, 48 or 72 hours. For the determination of proliferation, cells are harvested and counted with trypan blue dye exclusion. Apoptosis is evaluated by dual staining of MCF-7 with fluoresceine anti-digoxigenin and propidium iodide. Briefly, fixed cells are washed with PBS, suspended in TdT buffer with TdT enzyme and Dig-dUTP for 60 minutes, and suspended in FITC blocking solution with anti-Dig-Fluorescein for 30 minutes at room temperature and kept in a dark place. Cells are then rinsed in buffer and resuspended in propidium iodide/RNase A solution for 30 minutes then analyzed by flow cytometry. For the assessment of phospho-Akt1, Bax, p53, bcl-2 and p21, cells are lysed and analyzed by western blot.(Only for Reference)

描述

AG-1024 (Tyrphostin) suppresses IGF-1R autophosphorylation(IC₅₀=7 μM), and is less potent for IR(IC₅₀=57 μM).

储存

Powder: -20°C for 3 years | In solvent: -80°C for 1 year