

Catalog Number: CM04647

产品信息

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CM04647

CAS号:
1456551-16-8

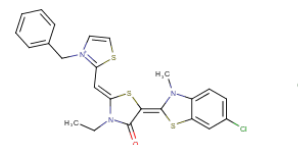
分子式:
 $C_{24}H_{21}Cl_2N_3OS_3$

主要靶点:
HSP|Apoptosis

主要通路:
凋亡|细胞骨架|代谢

分子量:
534.53

溶解度:
DMSO:5 mg/mL (9.35 mM)



靶点活性

HSP70 (MDA-MB-231):0.4 μ M|HSP70(MCF-7):0.7 μ M

体外活性

JG-98对MDA-MB-231细胞具有 $0.4 \pm 0.03 \mu$ M的活性，并对MCF7细胞具有 $0.7 \pm 0.2 \mu$ M的EC₅₀值。在MDA-MB-231细胞中，JG-98的处理激活了凋亡介质（caspase-3和PARP）。JG-98对MDA-MB-231和MCF7细胞的处理显著影响了自噬流[1]。JG-98具有抗增殖活性（EC₅₀值在0.3至4 μ mol/L之间），覆盖了来自多个起源的癌细胞系。JG-98破坏了FoxM1并解除了对下游效应物，包括p21和p27的抑制[2]。

体内活性

JG-98（3 mg/kg）在HeLa异种移植模型中抑制了肿瘤生长，尽管效果较弱[2]。

动物实验

Briefly, one million MCF7 or HeLa cells in Matrigel were subcutaneously injected bilaterally into 6 week old NCR mice. Once tumors were established, JG-98 (3 mg/kg; n=5) or vehicle control (1:1 PBS:DMSO; n=5) was introduced interperitoneally on days 2, 4 and 6. Tumor growth (10 tumors/5 mice) was measured by caliper every other day [2].

细胞实验

Cell viability was determined using an MTT colorimetric assay with the following modifications. Briefly, cells (5×10^3) were plated into 96-well assay plates in 0.1 ml media and allowed to attach overnight. Cells were then treated with compound at various concentrations in 0.2 mL media. After the 72-hour incubation period, cells were washed in PBS ($3 \times 100 \mu$ L), and 10 μ L MTT reagent was added with 100 μ L fresh media. Cells were then incubated for 4 hr in a humidified chamber at 37 °C with 5% CO₂. Insoluble formazan crystals were solubilized by addition of 0.1 mL detergent solution (4 hr at room temp., dark). Resulting colored solutions were then quantified at an absorbance of 570 nm [1].

储存

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