For Research Use Only

BMS-3

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Catalog Number: CM04955

产品信息

Catalog Number:
CM04955

CAS号:
1338247-30-5

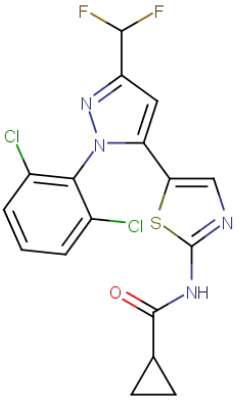
分子式:
$C_{17}H_{12}Cl_2F_2N_4OS$

主要靶点:
LIM Kinase

主要通路:
细胞周期

分子量:
429.27

溶解度:
DMSO:27.5 mg/mL (64.06 mM)



靶点活性

LIMK2:6 nM|LIMK1:5 nM

体外活性

BMS-3 (Compound 2) causes a dose-dependent reduction in cell count and induces mitotic arrest by increases in total nuclear DNA intensity and histone H3 phosphorylation after 24 h treatment in A549 human lung cancer cells. BMS-3 inhibits A549 human lung cancer cells with EC50 value of 154 nM[1]. BMS-3 is used to demonstrate the direct participation of LIMK1 in the phosphorylation of Cofilin. Inhibition of p-LIMK with 1-50 μM of BMS-3 results in a dose-dependent decrease of p-Cofilin after 10 min incubation in capacitating conditions. As a control, sperm are also incubated for 10 min under non-capacitating conditions which result in low levels of p-Cofilin. In the presence of 1 or 50 μM of BMS-3, actin polymerization levels are significantly lower compared to controls (DMSO). Mouse sperm are incubated under capacitating conditions for 90 min in the presence or absence of increasing concentrations of pLIMK inhibitor BMS-3 (0, 1, 10 and 50 μM). The increasing concentrations of BMS-3 result in a strong decrease on the percentage of sperm that undergoes acrosomal exocytosis after stimulation with 20 μM of Progesterone[2] .

储存

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