

Catalog Number: CM10126

产品信息

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CAS号:
2823308-89-8

分子式:
C₂₅H₂₆Cl₂N₂O₅S

主要靶点:
PARP

主要通路:
表观遗传|DNA损伤和修复

分子量:
537.46

溶解度:

H₂O:1 mg/mL (1.86 mM),Need ultrasonic and warming and heat to 60°C,DMSO:125 mg/mL (232.58 mM),Sonification is recommended.

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靶点活性

PARP-2:0.9 μM|PARP-1:14.7 nM

体外活性

PARP1-IN-5 dihydrochloride (0.1-10 μM) can significantly increase the cytotoxicity of CBP on A549 cells in a dose-dependent manner. PARP1-IN-5 dihydrochloride (0.1-10 μM) decreases the expressions of MCM2-7 on SK-OV-3 cells. PARP1-IN-5 dihydrochloride (0.1-320 μM) has little cytotoxic effects on A549 cells. PARP1-IN-5 dihydrochloride can significantly decrease the PAR level on SK-OV-3 cells[1]. PARP1-IN-5 dihydrochloride exerts antitumor effects through PARP-1. PARP1-IN-5 dihydrochloride could increase the γ-H2AX expression[1].

体内活性

PARP1-IN-5 dihydrochloride (1000 mg/kg; p.o.) shows that there is no significant difference in the body weight and blood routine[1]. PARP1-IN-5 dihydrochloride (25 and 50 mg/kg; p.o.; 12 days) significantly enhances the inhibitory effect of carboplatin on A549 cells at 50 mg/kg[1]. PARP1-IN-5 dihydrochloride (50 mg/kg; p.o.) positively correlates with the expression of PARP-1[1]. PARP1-IN-5 dihydrochloride can decrease the expression of PAR and upregulate the expression of γ-H2AX[1].

描述

PARP1-IN-5 dihydrochloride is an orally active, potent and selective PARP-1 inhibitor (IC₅₀=14.7 nM). PARP1-IN-5 dihydrochloride can be used for the research of cancer.

储存

Powder: -20°C for 3 years | In solvent: -80°C for 2 years