Product Data Sheet

Product Name: PARP1-IN-5 dihydrochloride
Cat. No.: GC62275

Chemical Properties

Cas. No.	2823308-89-8		
Formula	$C_{25}H_{26}Cl_2N_2O_5S$	M.Wt	537.46
Solubility		Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		
Structure	PARP1-IN-5 dihydrochloride		

Background

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

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

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 upregulate the expression of γ-H2AX and decrease the expression of PAR[1].

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[1]. Long H, et al. Discovery of Novel Apigenin-Piperazine Hybrids as Potent and Selective Poly (ADP-Ribose) Polymerase-1 (PARP-1) Inhibitors for the Treatment of Cancer. J Med Chem. 2021;64(16):12089-12108.

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