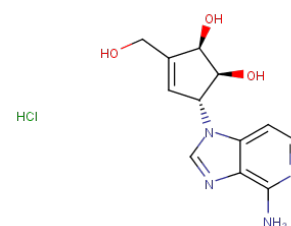


Catalog Number: CM04543

## 产品信息

Catalog Number:  
CM04543CAS号:  
120964-45-6分子式:  
 $C_{12}H_{15}ClN_4O_3$ 主要靶点:  
Others|Histone  
Methyltransferase主要通路:  
表观遗传|其他分子量:  
298.73溶解度:  
H2O:50 mg/mL (167.38  
mM), Sonification is  
recommended.

## 体外活性

EZH2 expression was detected by quantitative PCR in 15 PDAC cells, including seven primary cell cultures, showing that expression values correlated with their originator tumors (Spearman  $R(2) = 0.89$ ,  $P = 0.01$ ). EZH2 expression in cancer cells was significantly higher than in normal ductal pancreatic cells and fibroblasts. The 3-deazaneplanocin A HCl ( $5 \mu\text{mol/L}$ , 72-hour exposure) modulated EZH2 and H3K27me3 protein expression and synergistically enhanced the antiproliferative activity of gemcitabine, with combination index values of 0.2 (PANC-1), 0.3 (MIA-PaCa-2), and 0.7 (LPC006). The drug combination reduced the percentages of cells in G(2)-M phase (e.g., from 27% to 19% in PANC-1,  $P < 0.05$ ) and significantly increased apoptosis compared with gemcitabine alone. Moreover, 3-deazaneplanocin A HCl enhanced the mRNA and protein expression of the nucleoside transporters hENT1/hCNT1. 3-deazaneplanocin A HCl decreased cell migration, which was additionally reduced by 3-deazaneplanocin A HCl/gemcitabine combination ( $\sim 20\%$  in LPC006, after 8-hour exposure,  $P < 0.05$ ) and associated with increased E-cadherin mRNA and protein expression. Furthermore, 3-deazaneplanocin A HCl and 3-deazaneplanocin A HCl/gemcitabine combination significantly reduced the volume of PDAC spheroids growing in CSC-selective medium and decreased the proportion of CD133+ cells[2].

## 体内活性

The survival of NOD/SCID mice with AML due to HL-60 cells was significantly higher, if treated with 3-deazaneplanocin A HCl and PS compared to treatment with PS, 3-deazaneplanocin A HCl, or vehicle alone ( $P < .05$ ). Cotreatment with 3-deazaneplanocin A HCl and PS also did not increase the weight loss in the mice. Median survival was as follows: control, 36 days; PS, 42 days; 3-deazaneplanocin A HCl, 43 days; and 3-deazaneplanocin A HCl plus PS, 52 days. Compared with treatment with each agent alone, combined treatment with 3-deazaneplanocin A HCl and PS improved survival of NOD/SCID mice with leukemia caused by the AML HL-60 cells[3].

## 描述

3-deazaneplanocin A HCl is both an S-adenosyl-L-homocysteine hydrolase inhibitor and an enhancer of zeste homolog 2 (EZH2) inhibitor.

## 储存

Powder:  $-20^{\circ}\text{C}$  for 3 years | In solvent:  $-80^{\circ}\text{C}$  for 2 years