Product Name: 3-Deazaneplanocin A hydrochloride
Catalog No.: 4703 Batch No.: 1
CAS Number: 120964-45-6
IUPAC Name: (1S,2R,5R)-5-(4-Amino-1H-imidazo[4,5-c]pyridin-1-yl)-3-(hydroxymethyl)-3-cyclopentene-1,2-diol hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

   Batch Molecular Formula: C_{12}H_{14}N_{4}O_{3}.HCl
   Batch Molecular Weight: 298.73
   Physical Appearance: Off-white solid
   Solubility: water to 10 mM
   Storage: Store at -20°C
   Batch Molecular Structure:

   ![Molecular Structure]

2. ANALYTICAL DATA

   HPLC: Shows 98.2% purity
   ¹H NMR: Consistent with structure
   Mass Spectrum: Consistent with structure
**Product Name:** 3-Deazaneplanocin A hydrochloride  
**Catalog No.:** 4703  
**Batch No.:** 1

**CAS Number:** 120964-45-6  
**IUPAC Name:** \((1S,2R,5R)-5-(4-Amino-1H-imidazo[4,5-c]pyridin-1-yl)-3-(hydroxymethyl)-3-cyclopentene-1,2-diol hydrochloride\)

**Description:** Histone methyltransferase inhibitor; decreases global DNA methylation. Blocks EZH2 activity and trimethylation of lysine 27 on histone H3 in vitro. Induces apoptotic cell death in cancer cells and inhibits S-adenosylhomocysteine hydrolase (SAHH).

**Physical and Chemical Properties:**
- **Batch Molecular Formula:** C_{12}H_{14}N_{3}O_{3}.HCl  
- **Batch Molecular Weight:** 298.73  
- **Physical Appearance:** Off-white solid
- **Minimum Purity:** >98%

**Storage:** Store at -20°C

**Solubility & Usage Info:**  
water to 10 mM

**Stability and Solubility Advice:**
Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:
- **SOLIDS:** Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.
- **SOLUTIONS:** We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

**References:**