

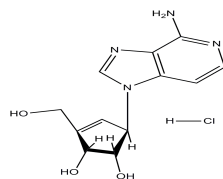
PRODUCT: 3-Deazaneplanocin A hydrochloride

ALTERNATE NAME: DZNep; NSC 617989; 5R-(4-amino-1H-imidazo[4,5-c]pyridin-1-yl)-3-(hydroxymethyl)-3-cyclopentene-1S,2R-diol hydrochloride

CATALOG #: 2444-250, 1000

AMOUNT: 250 µg, 1 mg

STRUCTURE:



MOLECULAR FORMULA: C₁₂H₁₄N₄O₃·HCl

MOLECULAR WEIGHT: 298.73

CAS NUMBER: 120964-45-6

APPEARANCE: White to Off-white solid

SOLUBILITY: H₂O (~5 mg/ml)

PURITY: ≥98% by HPLC

STORAGE: Store at -20 °C. Protect from air and moisture

DESCRIPTION: A lysine methyltransferase EZH2 (KMT63) inhibitor. DZNep is a selective inhibitor of trimethylation of lysine 27 on histone H3 (H3K27me3) and lysine 20 on histone H4 (H4K20me3). DZNep treatment of cultured human AML cells induces increased expression of the cell-cycle regulators p21, p27, and FBXO32, leading to cell cycle arrest and apoptosis.

REFERENCES: Avan, A., *et al.* (2012). *Mol Cancer Ther.* **11**, 1735-1746; Kikuchi, J., *et al.* (2012). *Lung Cancer* **78**, 138-143.

HANDLING: Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

RELATED PRODUCTS:

AMI-1 (Cat. No. 1943-5, 25)
 Aza-2'-deoxycytidine (Cat. No. 1754-10, 50)
 5- BIX01294 (Cat. No. 1678-5, 25)
 Bromodomain Inhibitor, (+)-JQ1 (Cat. No. 2070-1, 5)
 EPZ004777 (Cat. No. 2381-1, 5)
 EPZ-5676 (Cat. No. 2382-1, 5)
 EPZ-6438 (E7438) (Cat. No. 2383-1, 5)
 EPZ005687 (Cat. No. 2364-2, 10)
 EZSolution™ EPZ005687 (Cat. No. 2375-2)
 EZSolution™ GSK126 (Cat. No. 2366-1)
 3-Deazaneplanocin (Cat. No. 2060-250, 1000)
 GSK343 (Cat. No. 2281-1, 5)
 EZSolution™ GSK343 (Cat. No. 2365-1)
 EZSolution™ GSK126 (Cat. No. 2366-1)
 GSK126 (Cat. No. 2282-1, 5)
 (+)-JQ1 (Cat. No. 2070-1, 5)
 EZSolution™ (+)-JQ1 (Cat. No. 2091-1)
 Lomeguatrib (Cat. No. 2224-5, 25)
 RG108 (Cat. No. 1679-10, 30)
 UNC0638 (Cat. No. 1933-1,
 Zebularine (Cat. No. 2225-1, 5)

USAGE: **FOR RESEARCH CH USE ONLY! Not to be used in humans**