

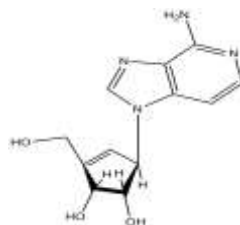
3-Deazaneplanocin A

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

CATALOG #: 2060-250, 1000

AMOUNT: 250 µg, 1 mg

STRUCTURE:



MOLECULAR FORMULA: C₁₂H₁₄N₄O₃

MOLECULAR WEIGHT: 262.26

CAS NUMBER: 102052-95-9

APPEARANCE: Off-white solid

SOLUBILITY: DMSO (20 mg/ml) or EtOH (1 mg/ml)

PURITY: ≥98%

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

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: Miranda, T.B., *et al.* (2009). *Mol. Cancer Ther.* **8**, 1579-1588.

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

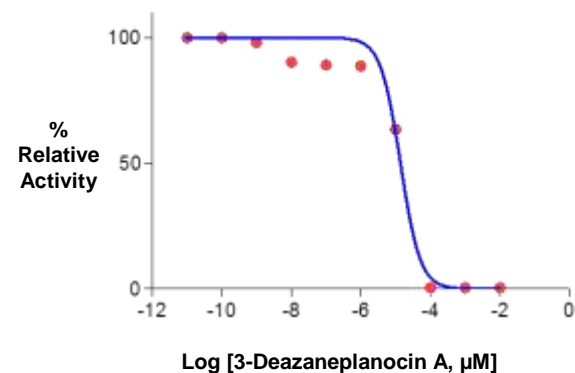


Figure: Inhibition of Adenosyl homocysteinease (AHCY) Enzyme activity by 3-Deazaneplanocin A. IC₅₀ of 3-Deazaneplanocin A was determined to be 0.137 nM. Assays are performed following our AHCY Inhibitor Screening Kit (Fluorometric) Cat#K326-100 protocol.

RELATED PRODUCTS:

- AMI-1 (Cat. No. 1943-5, 25)
- 5-Aza-2'-deoxycytidine (Cat. No. 1754-10, 50)
- BIX01294 (Cat. No. 1678-5, 25)
- RG108 (Cat. No. 1679-10, 30)
- UNC0638 (cat. No. 1933-1, 5)

FOR RESEARCH USE ONLY! Not to be used in humans.