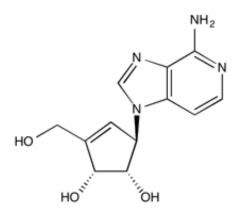


Catalog # 10-1524 DZNep

CAS# 102052-95-9 3-Deazaneplanocin A; NSC 617989 (1S,2R,5R)-5-(4-Aminoimidazo[4,5-c]pyridine-1-yl)-3-(hydroxymethyl)-cyclopent-3-ene-1,2-diol Lot # X106455



Potent histone methyltransferase inhibitor which decreases global histone methylation¹. Inhibits trimethylation of H3K27 and H4K20 *in vitro*¹. Selectively induces apoptosis in multiple cancer cell lines with no effect on normal cells². May be used in cocktails to chemically induce pluripotent stem cells (CiPSCs) from somatic cells³. Enhances angiogenesis in a mouse model of limb ischemia⁴.

- 1) Miranda et al. (2009), DZNep is a global histone methylation inhibitor that reactivates developmental genes not silenced by DNA methylation; Mol. Cancer Ther., **8** 1579
- 2) Tan et al. (2007), Pharmacologic disruption of Polycomb-repressive complex 2-mediated gene repression selectively induces apoptosis in cancer cells; Genes Dev., **21** 1050
- 3) Hou et al. (2013), Pluripotent stem cells induced from mouse somatic cells by small-molecule compounds; Science, 341 651
- 4) Mitic et al. (2015), EZH2 modulates angiogenesis in vitro and in a mouse model of limb ischemia; Mol. Ther., 23 32

PHYSICAL DATA

Molecular Weight:	262.26
Molecular Formula:	C ₁₂ H ₁₄ N ₄ O ₃
Purity:	98% by HPLC
	NMR: (Conforms)
Solubility:	DMSO (up to 20 mg/ml)
Physical Description:	Beige solid
Storage and Stability:	Store as supplied, desiccated at -20°C for up to 1 year from the date of purchase. Solutions in
	DMSO may be stored at -20°C for up to 1 month.

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