

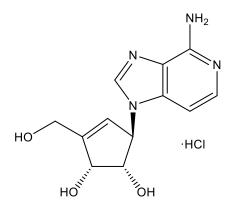
Catalog # 10-1524 DZNep HCI

CAS# 120964-45-6

3-Deazaneplanocin A, HCl; NSC 617989

(1S, 2R, 5R)-5-(4-Aminoimidazo[4, 5-c] pyridine-1-yl)-3-(hydroxymethyl)-cyclopent-3-ene-1, 2-diol hydrochloride and a standard standard

Lot # E106456



Potent histone methyltransferase inhibitor which decreases global histone methylation.¹ Inhibits trimethylation of H3K27 and H4K20 *in vitro.*¹ Selectively induces apoptosis in multiple cancer cell lines with no effect on normal cells.² May be used in cocktails to chemically induce pluripotent stem cells (CiPSCs) from somatic cells.³ Enhances angiogenesis in a mouse model of limb ischemia.⁴

- 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:	298.73
Molecular Formula:	C ₁₂ H ₁₄ N ₄ O ₃ • HCI
Purity:	98% by HPLC
	NMR: (Conforms)
Solubility:	Water (up to 40 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 water may be stored at -20°C for up to 1 month.

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