



Catalog # 10-2412

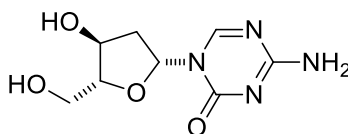
Decitabine

CAS# 2353-33-5

5-Aza-2'-deoxycytidine

NSC-127716

Lot # X104322



Inhibits DNA methyltransferase. Induces demethylation and reactivation of silenced genes. Increases stem cell reprogramming efficiency. Stimulates osteogenic differentiation of human bone marrow stromal cells. Antitumor agent. Cell permeable.

- 1) Bender *et al.* (1998), *Inhibition of DNA methylation by 5-aza-2'-deoxycytidine suppresses the growth of human tumor cell lines*; Cancer Res., **58** 95
- 2) El-Serafi *et al.* (2011), *Epigenetic modifiers influence lineage commitment of human bone marrow stromal cells: Differential effects of 5-aza-deoxycytidine and trichostatin A*; Differentiation, **81** 35

PHYSICAL DATA

Molecular Weight: 228.21
Molecular Formula: C₈H₁₂N₄O₄
Purity: 98% by TLC
NMR: (Conforms)
Solubility: DMSO (up to 25 mg/ml), Water (up to 11 mg/ml)
Physical Description: White solid
Storage and Stability: Store as supplied at -20°C for up to 2 years from the date of purchase. Solutions in DMSO or water may be stored at -20°C for up to 3 months.

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