

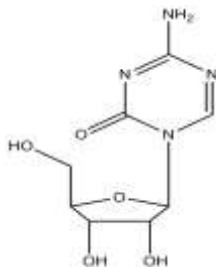
5-Azacytidine

ALTERNATE NAME: 4-Amino-1-(β -D-ribofuranosyl)-1,3,5-triazin-2(1*H*)-one, Ladakamycin

CATALOG #: 1854-50, 250

AMOUNT: 50 mg, 250 mg

STRUCTURE:



MOLECULAR FORMULA: $C_8H_{12}N_4O_5$

MOLECULAR WEIGHT: 244.20

CAS NUMBER: 320-67-2

APPEARANCE: White to off-white solid

SOLUBILITY: AcOH: H₂O (1:1) (5 mg/ml)

PURITY: \geq 95% by HPLC

STORAGE: Store at -20 °C

DESCRIPTION: A potent growth inhibitor and cytotoxic agent; a potent DNA methyltransferase inhibitor. Causes DNA demethylation or hemi-demethylation, creating openings that allow transcription factors to bind to DNA and reactivate tumor suppressor genes. Also, recently shown to increase reprogramming efficiency of stem cells 10-fold.

REFERENCE: Anastasia, L., *et al.* (2010). *Cell Death and Differentiation* **17**, 1230-1237.

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

RELATED PRODUCTS

- Bay K 8644 (**Cat. No. 1682-5**)
- BIO (**Cat. No. 1673-1**)
- BIX01294 (**Cat. No. 1678-5, 25**)
- 8-Br-cAMP (**Cat. No. 1837-5, 25**)
- CHIR CHIR99021 (**Cat. No. 1677-5, 25**)
- EZSolution™ CHIR99021 (**Cat. No. 1748-5**)
- GSK-3 Inhibitor, TWS119 (**Cat. No. 1655-2**)
- PD-0325901 (**Cat. No. 1643-2, 5, 25**)
- Pyrintegrin (**Cat. No. 1629-1,5**)
- EZSolution™ Pyrintegrin (**Cat. No. 1737-1**)
- RG 108 (**Cat. No. 1679-10, 30**)
- SB-431542 (**Cat. No. 1674-1**)
- Thiazovivin (**Cat. No. 1681-1,5**)
- EZSolution™ Thiazovivin (**Cat. No. 1736-1**)
- Tranylcypomine (**Cat. No. 1816-25, 100**)
- Valproic Acid Sodium Salt (**Cat. No. 1647-200**)
- Y-27632, 2HCl (**Cat. No. 1596-1,5,50**)
- EZSolution™ Y-27632, 2HCl (**Cat. No. 1784-5**)

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

