

Store at
-20°C

5-Azacytidine

#50646

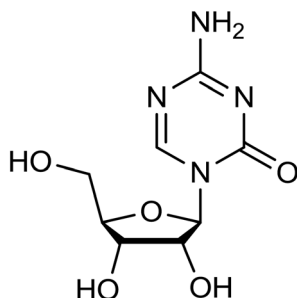
50 mg

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Background: 5-Azacytidine is a nucleoside analogue of cytidine and a DNA methyltransferase inhibitor. 5-Azacytidine is incorporated into DNA to covalently trap DNA methyltransferases, which contributes to reversing DNA methylation (1). It also functions in reducing DNA hypermethylation in certain diseases, including myelodysplastic syndrome (MDS) (2).

Molecular Formula: C₈H₁₂N₄O₅



Molecular Weight: 244.2 g/mol

Purity: >98%

CAS: 320-67-2

Solubility: Soluble in DMSO at 25 mg/mL or water at 12 mg/mL.

Storage: Store lyophilized at -20°C, desiccated. In lyophilized form, the chemical is stable for 24 months. Once in solution, store at -20°C and use within 1 month to prevent loss of potency. *Aliquot to avoid multiple freeze/thaw cycles.*

Directions for Use: 5-Azacytidine is supplied as a lyophilized powder. For a 15 mM stock, reconstitute 5 mg of powder in 1.37 mL of DMSO. Working concentrations and length of treatment can vary depending on the desired effect.

Background References:

- (1) Brueckner, B. et al. (2005) *Cancer Res* 65, 6305-11.
- (2) Silverman, L.R. et al. (2002) *J Clin Oncol* 20, 2429-40.

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Applications: W—Western IP—Immunoprecipitation IHC—Immunohistochemistry ChIP—Chromatin Immunoprecipitation IF—Immunofluorescence F—Flow cytometry E-P—ELISA—Peptide **Species Cross-Reactivity:** H—human M—mouse R—rat Hm—hamster Mk—monkey Mi—mink C—chicken Dm—D. melanogaster X—Xenopus Z—zebrafish B—bovine Dg—dog Pg—pig Sc—S. cerevisiae Ce—C. elegans Hr—Horse All—all species expected Species enclosed in parentheses are predicted to react based on 100% homology.