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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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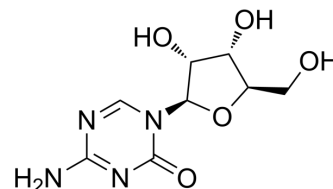
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5-Azacytidine (Standard)

Cat. No.:	HY-10586R
CAS No.:	320-67-2
Molecular Formula:	C ₈ H ₁₂ N ₄ O ₅
Molecular Weight:	244.2
Target:	Autophagy; Organoid; DNA Methyltransferase; Antibiotic; Nucleoside Antimetabolite/Analog; Bacterial
Pathway:	Autophagy; Stem Cell/Wnt; Epigenetics; Anti-infection; Cell Cycle/DNA Damage
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	5-Azacytidine (Standard) is the analytical standard of 5-Azacytidine. This product is intended for research and analytical applications. 5-Azacytidine (Azacytidine; 5-AzaC; Ladakamycin) is a nucleoside analogue of cytidine that specifically inhibits DNA methylation. 5-Azacytidine is incorporated into DNA to covalently trap DNA methyltransferases and contributes to reverse epigenetic changes ^{[1][2]} . 5-Azacytidine induces cell autophagy ^[4] .
IC₅₀ & Target	IC50: DNA methyltransferases; autophagy ^[1]

REFERENCES

- [1]. Christman JK. 5-Azacytidine and 5-aza-2'-deoxycytidine as inhibitors of DNA methylation: mechanistic studies and their implications for cancer therapy. *Oncogene*. 2002 Aug 12;21(35):5483-95.
- [2]. Creusot F, et al. Inhibition of DNA methyltransferase and induction of Friend erythroleukemia cell differentiation by 5-azacytidine and 5-aza-2'-deoxycytidine. *J Biol Chem*. 1982 Feb 25;257(4):2041-8.
- [3]. Li LH, et al. Cytotoxicity and mode of action of 5-azacytidine on L1210 leukemia. *Cancer Res*. 1970 Nov;30(11):2760-9.
- [4]. Marycz K, et al. 5-Azacytidine and Resveratrol Enhance Chondrogenic Differentiation of Metabolic Syndrome-Derived Mesenchymal Stem Cells by Modulating Autophagy. *Oxid Med Cell Longev*. 2019 May 12;2019:1523140.

Caution: Product has not been fully validated for medical applications. For research use only.

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