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Zuschläge

- Mindermengenzuschlag
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- Expressversand

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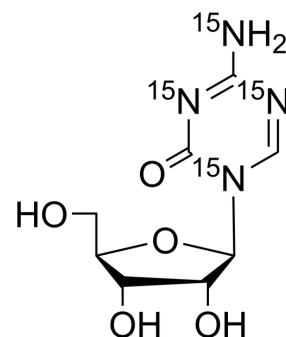
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5-Azacytidine-¹⁵N₄

Cat. No.:	HY-W653970
CAS No.:	2139283-40-0
Molecular Formula:	C ₈ H ₁₂ ¹⁵ N ₄ O ₅
Molecular Weight:	248.18
Target:	Isotope-Labeled Compounds; Antibiotic; DNA Methyltransferase; Organoid; Autophagy; Nucleoside Antimetabolite/Analog; Bacterial
Pathway:	Others; Anti-infection; Epigenetics; Stem Cell/Wnt; Autophagy; Cell Cycle/DNA Damage
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

5-Azacytidine-¹⁵N₄ is ¹³C and ¹⁵N labeled 5-Azacytidine. 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. 5-Azacytidine induces cell autophagy^{[1][2][3][4]}.

REFERENCES

- [1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. Ann Pharmacother. 2019 Feb;53(2):211-216.
- [2]. Li LH, et al. Cytotoxicity and mode of action of 5-azacytidine on L1210 leukemia. Cancer Res. 1970 Nov;30(11):2760-9.
- [3]. 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.
- [4]. 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.
- [5]. 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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