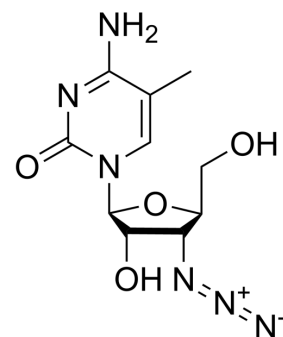


3'-Azido-3'-deoxy-5-methyl-beta-L-cytidine

Cat. No.:	HY-152595
CAS No.:	2095417-52-8
Molecular Formula:	C ₁₀ H ₁₄ N ₆ O ₄
Molecular Weight:	282.26
Target:	Nucleoside Antimetabolite/Analog
Pathway:	Cell Cycle/DNA Damage
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

3'-Azido-3'-deoxy-5-methyl-beta-L-cytidine is a purine nucleoside analogue. Purine nucleoside analogs have broad antitumor activity targeting indolent lymphoid malignancies. Anticancer mechanisms in this process rely on inhibition of DNA synthesis, induction of apoptosis, etc^[1]. 3'-Azido-3'-deoxy-5-methyl-beta-L-cytidine is a click chemistry reagent, it contains an Azide group and can undergo copper-catalyzed azide-alkyne cycloaddition reaction (CuAAC) with molecules containing Alkyne groups. Strain-promoted alkyne-azide cycloaddition (SPAAC) can also occur with molecules containing DBCO or BCN groups.

REFERENCES

[1]. Robak T, Robak P. Purine nucleoside analogs in the treatment of rarer chronic lymphoid leukemias. *Curr Pharm Des.* 2012;18(23):3373-88.

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

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