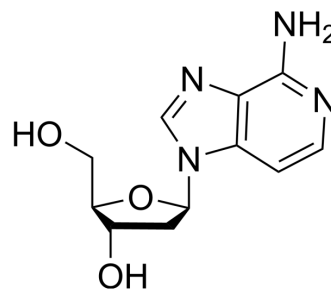


3-Deaza-2'-deoxyadenosine

Cat. No.:	HY-126877
CAS No.:	78582-17-9
Molecular Formula:	C ₁₁ H ₁₄ N ₄ O ₃
Molecular Weight:	250.25
Target:	HSV
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

3-Deaza-2'-deoxyadenosine is a nucleoside analog synthesized from 2'-deoxyadenosine. 3-Deaza-2'-deoxyadenosine inhibits RNA synthesis by binding to ribose fragments of ribonucleotides, thereby preventing the formation of enzyme-substrate complexes, thereby preventing chain elongation, It can also inhibit DNA synthesis by binding deoxyribose fragments of DNA and preventing DNA polymerase from adding nucleotides to the growth chain. 3-Deaza-2'-deoxyadenosine has antiviral activity^{[1][2]}.

REFERENCES

[1]. Hendrickson CL, et al. Probing minor groove recognition contacts by DNA polymerases and reverse transcriptases using 3-deaza-2'-deoxyadenosine. *Nucleic Acids Res.* 2004 Apr 23;32(7):2241-50.

[2]. Cristalli G, et al. Synthesis and biological evaluation of N6-cycloalkyl derivatives of 1-deazaadenine nucleosides: a new class of anti-human immunodeficiency virus agents. *J Med Chem.* 1995 Sep 29;38(20):4019-25.

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

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