

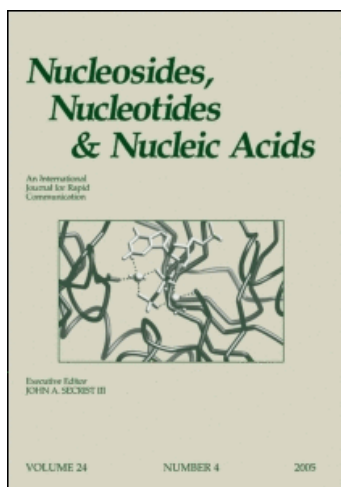
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**Acyclic Nucleosides Other Than Acyclovir as
Potential Antiviral Agents**

A Bibliography

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In the past few years interest in the synthesis and biological properties of acyclic nucleosides has been generated based largely upon the development of acyclovir [9-[(2-hydroxyethoxy)methyl] guanine, 1a] as an antiviral agent for the treatment of certain herpesvirus infections. The literature in the area covers a variety of different heterocycles, a variety of different side chains, and spans research that is strictly synthetic to research that is strictly biological. Two compounds, 9-[(2-hydroxy-1-(hydroxymethyl)ethoxy)methyl] guanine (1b) and 9-(S)-(2,3-dihydroxypropyl)adenine (2), have received the most attention, but many others have been made.

This bibliography specifically excludes papers on acyclovir except when they deal with another acyclic nucleoside as well. Many reviews covering all aspects of the development and use of acyclovir as an antiviral drug already exist, and furthermore literature references are readily available through standard abstracting sources. Our coverage excludes patents and also conference proceedings where papers covering the same material have been published. Our main focus is on acyclic nucleosides that are based upon those compounds that possess antiviral activity. In some cases, for example 5-benzyloxyacyclouridine, where the emphasis is not on antiviral activity, only the leading references are given. The various references are divided into categories for the purpose of organization, and articles that fit into more than one of our categories are listed in each appropriate category. The categories used are:

Acyclovir Prodrugs

General Synthetic Methods

9-[[2-Hydroxy-1-(hydroxymethyl)ethoxy] methyl] guanine

9-(2,3-Dihydroxypropyl)adenine

erythro-9-(2-Hydroxy-3-nonyl)adenine

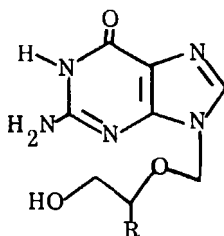
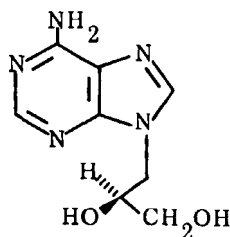
Purines

Pyrimidines

Other Heterocycles

C-Nucleosides

This bibliography was compiled using the Chemical Abstracts and Science Citation Index files of *DIALOG Information Services* along with some manual searching based upon the initial computer-generated list of papers.

1a, R = H1b, R = CH₂OH2

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