

# Chemical Synthesis of Nucleoside Analogues

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# Chemical Synthesis Of Nucleoside Analogues

**Joacim Rocklöv**



## **Chemical Synthesis Of Nucleoside Analogues:**

*Chemical Synthesis of Nucleoside Analogues* Pedro Merino, 2013-02-12 Compiles current tested and proven approaches to synthesize novel nucleoside analogues Featuring contributions from leading synthetic chemists from around the world this book brings together and describes tested and proven approaches for the chemical synthesis of common families of nucleoside analogues Readers will learn to create new nucleoside analogues with desired therapeutic properties by using a variety of methods to chemically modify natural nucleosides including Changes to the heterocyclic base Modification of substituents at the sugar ring Replacement of the furanose ring by a different carbo or heterocyclic ring Introduction of conformational restrictions Synthesis of enantiomers Preparation of hydrolytically stable C nucleosides Chemical Synthesis of Nucleoside Analogues covers all the major classes of nucleosides including pronucleotides C nucleosides carbanucleosides and PNA monomers which have shown great promise as starting points for the synthesis of nucleoside analogues The book also includes experimental procedures for key reactions related to the synthesis of nucleoside analogues providing a valuable tool for the preparation of a number of different compounds Throughout the book chemical schemes and figures help readers better understand the chemical structures of nucleoside analogues and the methods used to synthesize them Extensive references serve as a gateway to the growing body of original research studies and reviews in the field Synthetically modified nucleosides have proven their value as therapeutic drugs in particular as antiviral and antitumor agents However many of these nucleoside analogues have undesirable side effects With *Chemical Synthesis of Nucleoside Analogues* as their guide researchers have a new tool for synthesizing a new generation of nucleoside analogues that can be used as therapeutic drugs with fewer unwanted side effects

**Advances in Heterocyclic Chemistry**, 2015-08-12 *Advances in Heterocyclic Chemistry* is the definitive series in the field one of great importance to organic chemists polymer chemists and many biological scientists Because biology and organic chemistry increasingly intersect the associated nomenclature also is being used more frequently in explanations Written by established authorities in the field from around the world this comprehensive review combines descriptive synthetic chemistry and mechanistic insight to yield an understanding of how chemistry drives the preparation and useful properties of heterocyclic compounds Considered the definitive serial in the field of heterocyclic chemistry Serves as the go to reference for organic chemists polymer chemists and many biological scientists Provides the latest comprehensive reviews written by established authorities in the field Combines descriptive synthetic chemistry and mechanistic insight to enhance understanding of how chemistry drives the preparation and useful properties of heterocyclic compounds

**Nucleoside Triphosphates and their Analogs** Morteza Vaghefi, 2016-04-19 While adenosine triphosphate ATP is described as the universal currency of energy in all living organisms at the cellular level the actual power lies in its phosphate tail This book is the first dedicated to the field of nucleoside triphosphate NTP Its 13 chapters encompass the contributions of twenty scientists from both academia and industry It provides collective information

on the chemical physiochemical and biological properties of both natural and modified NTP and their application in life sciences Three chapters review families of enzymes that depend on nucleotides for assembling DNA and RNA molecules The appendix includes supporting NMR data      Nucleic Acids in Chemistry and Biology G Michael Blackburn, Michael J Gait, David Loakes, David M Williams, 2015-11-09 The structure function and reactions of nucleic acids are central to molecular biology and are crucial for the understanding of complex biological processes involved Revised and updated Nucleic Acids in Chemistry and Biology 3rd Edition discusses in detail both the chemistry and biology of nucleic acids and brings RNA into parity with DNA Written by leading experts with extensive teaching experience this new edition provides some updated and expanded coverage of nucleic acid chemistry reactions and interactions with proteins and drugs A brief history of the discovery of nucleic acids is followed by a molecularly based introduction to the structure and biological roles of DNA and RNA Key chapters are devoted to the chemical synthesis of nucleosides and nucleotides oligonucleotides and their analogues and to analytical techniques applied to nucleic acids The text is supported by an extensive list of references making it a definitive reference source This authoritative book presents topics in an integrated manner and readable style It is ideal for graduate and undergraduates students of chemistry and biochemistry as well as new researchers to the field

Chemistry, Biology, and Clinical Uses of Nucleoside Analogs Alexander Bloch, 1975      Chemistry of Nucleic Acids Harri Lönnberg, 2024-09-23 Life in all its forms is based on nucleic acids which store and transfer genetic information The book addresses main aspects of synthesis hydrolytic stability and solution equilibria of nucleosides nucleotides and oligonucleotides as well as synthesis of their structural analogs that are of interest in chemotherapy In addition recent achievements in chemistry of catalytic nucleic acids development of oligonucleotide based drugs and novel strategies for their targeting and delivery are discussed The central theme always is the correlation of structure and function

*Phosphate Labeling and Sensing in Chemical Biology* Henning Jacob Jessen, 2017-07-08 The series Topics in Current Chemistry Collections presents critical reviews from the journal Topics in Current Chemistry organized in topical volumes The scope of coverage is all areas of chemical science including the interfaces with related disciplines such as biology medicine and materials science The goal of each thematic volume is to give the non specialist reader whether in academia or industry a comprehensive insight into an area where new research is emerging which is of interest to a larger scientific audience Each review within the volume critically surveys one aspect of that topic and places it within the context of the volume as a whole The most significant developments of the last 5 to 10 years are presented using selected examples to illustrate the principles discussed The coverage is not intended to be an exhaustive summary of the field or include large quantities of data but should rather be conceptual concentrating on the methodological thinking that will allow the non specialist reader to understand the information presented Contributions also offer an outlook on potential future developments in the field      **The Enzymatic and Chemical Synthesis of Nucleoside Analogues Using**

**N-deoxyribosyltransferase from *Lactobacillus Leichmannii*** Nicola Hicks,1992      *Chemistry and Biology of Nucleosides and Nucleotides* Robert Harmon,2012-12-02 Chemistry and Biology of Nucleosides and Nucleotides is a collection of papers presented at the symposium on the Chemistry and Biology of Nucleosides and Nucleotides held on August 30 September 1 1976 as part of the San Francisco Centennial Meeting of the Carbohydrate Division of the American Chemical Society Contributors explore the chemistry and biology of nucleosides and nucleotides as well as the different chemical and instrumental techniques used in their synthesis This book is comprised of 28 chapters and begins by describing the synthesis of a gene and its introduction into a biological system where it proved to be functional The synthesis of nucleosides and nucleotides with anticancer and antiviral activity is also discussed along with the rationale for the design and synthesis of such compounds Simple models of nucleic acid interactions are described Subsequent chapters explore the chemistry and biological activity of C nucleosides related to pseudouridine and of some nucleoside analogs active against tumor cells the selectivity and stereospecificity of the ribosylation reaction synthesis of C glycosyl thiazoles and C nucleoside isosteres of some nucleoside antibiotics This monograph will serve as reference and source material for many workers in biomedical research as teaching material for instructors of advanced science courses      **The Chemical Biology of Nucleic Acids**

Günter Mayer,2011-06-17 With extensive coverage of synthesis techniques and applications this text describes chemical biology techniques which have gained significant impetus during the last five years It focuses on the methods for obtaining modified and native nucleic acids and their biological applications Topics covered include chemical synthesis of modified RNA expansion of the genetic alphabet in nucleic acids by creating new base pairs chemical biology of DNA replication probing DNA polymerase selectivity mechanisms with modified nucleotides nucleic acid templated chemistry chemical biology of peptide nucleic acids PNA the interactions of small molecules with DNA and RNA the architectural modules of folded RNAs genesis and biological applications of locked nucleic acid LNA small non coding RNA in bacteria microRNA guided gene silencing nucleic acids based therapies innate immune recognition of nucleic acid light responsive nucleic acids for the spatiotemporal control of biological processes DNA methylation frameworks for programming RNA devices RNA as a catalyst The Diels Alder Ribozye evolving an understanding of RNA function by in vitro approaches the chemical biology of aptamers synthesis and applications nucleic acids as detection tools bacterial riboswitch discovery and analysis The Chemical Biology of Nucleic Acids is an essential compendium of the synthesis of nucleic acids and their biological applications for bioorganic chemists chemical biologists medicinal chemists cell biologists and molecular biologists

**Biomedical Index to PHS-supported Research** ,1991      **Enzymatic and Chemical Synthesis of Nucleic Acid Derivatives** Jesús Fernández Lucas,María-José Camarasa Rius,2018-10-25 A review of innovative tools for creative nucleic acid chemists that open the door to novel probes and therapeutic agents Nucleic acids continue to gain importance as novel diagnostic and therapeutic agents With contributions from noted scientists and scholars Enzymatic and Chemical Synthesis

of Nucleic Acid Derivatives is a practical reference that includes a wide range of approaches for the synthesis of designer nucleic acids and their derivatives The book covers enzymatic including chemo enzymatic methods with a focus on the synthesis and incorporation of modified nucleosides The authors also offer a review of innovative approaches for the non enzymatic chemical synthesis of nucleic acids and their analogs and derivatives highlighting especially challenging species The book offers a concise review of the methods that prepare novel and heavily modified polynucleotides in sufficient amount and purity for most clinical and research applications This important book Presents a timely and topical guide to the synthesis of designer nucleic acids and their derivatives Addresses the growing market for nucleotide derived pharmaceuticals used as anti infectives and chemotherapeutic agents as well as fungicides and other agrochemicals Covers novel methods and the most recent trends in the field Contains contributions from an international panel of noted scientists Written for biochemists medicinal chemists natural products chemists organic chemists and biotechnologists Enzymatic and Chemical Synthesis of Nucleic Acid Derivatives is a practice oriented guide that reviews innovative methods for the enzymatic as well as non enzymatic synthesis of nucleic acid species

**Palladium-Catalyzed Modification of Nucleosides, Nucleotides and Oligonucleotides** Anant R. Kapdi, Debabrata Maiti, Yogesh S. Sanghvi, 2018-06-04  
Palladium Catalyzed Modification of Nucleosides Nucleotides and Oligonucleotides describes the procedures and protocols related to the modification of nucleosides nucleotides and oligonucleotides via Pd mediated cross coupling processes The book highlights the growing area of nucleic acid modification and how Pd mediated coupling reactions can assist this development Users will find key synthetic protocols for these reactions in this latest volume in the Latest Trends in Palladium Chemistry series As most of the research in the field of antiviral agents has centered on the use of modified nucleosides that have exhibited promising activity this book provides an up to date reference for both professionals in industry and other interested parties Provides synthetic routes for useful nucleoside molecules information otherwise found only through time consuming literature searches Covers metal mediated and metal catalyzed cross coupling processes of nucleosides and related compounds Includes Suzuki Miyaura Stille and Sonogashira reactions as well as C H bond functionalization Highlights the growing area of nucleic acid modification and how Pd mediated coupling reactions can assist

**Phosphorus Chemistry II** Jean-Luc Montchamp, 2015-03-06 Each review within the volume critically surveys one aspect of that topic and places it within the context of the volume as a whole The most significant developments of the last 5 to 10 years are presented using selected examples to illustrate the principles discussed The coverage is not intended to be an exhaustive summary of the field or include large quantities of data but should rather be conceptual concentrating on the methodological thinking that will allow the non specialist reader to understand the information presented Contributions also offer an outlook on potential future developments in the field

**Advances in Heterocyclic Chemistry** Alan R. Katritzky, 2013-12-13

Established in 1960 Advances in Heterocyclic Chemistry is the definitive serial in the area one of great importance to organic

chemists polymer chemists and many biological scientists Written by established authorities in the field the comprehensive reviews combine descriptive chemistry and mechanistic insight and yield an understanding of how the chemistry drives the properties One of great importance to organic chemists polymer chemists and many biological scientists Written by established authorities in the field the comprehensive reviews combine descriptive chemistry and mechanistic insight and yield an understanding of how the chemistry drives the properties **Index Medicus** ,2004 Vols for 1963 include as pt 2 of the Jan issue Medical subject headings *Research Awards Index* ,1989 **Organophosphorus Chemistry** John C Tebby,David Loakes,David W Allen,2014-03-10 Organophosphorus Chemistry provides a comprehensive and critical review of the recent literature Coverage includes phosphines and their chalcogenides phosphonium salts low coordination number phosphorus compounds penta and hexa coordinated compounds quinquivalent phosphorus acids nucleotides and nucleic acids ylides and related compounds phosphazenes and the application of physical methods in the study of organophosphorus compounds This is the 40th in a series of volumes which first appeared in 1970 under the editorship of Stuart Trippett and which covered the literature of organophosphorus chemistry published in the period from January 1968 to June 1969 citing some 1370 publications The present volume covers the literature from the last 18 months citing more than 2200 publications continuing our efforts to provide an up to date survey of progress in an area of chemistry that has expanded significantly over the past 40 years **Research Grants Index** National Institutes of Health (U.S.). Division of Research Grants,1965

**Valorization of Biomass to Bioproducts** Vijai Kumar Gupta,2023-02-21 Valorization of Biomass to Bioproducts Biochemicals and Biomaterials discusses the innovation and blueprint of biochemical extraction processes and the ideal utilization of biochemicals that help form the basis of green extraction to produce biochemicals from biomass The book comprises a rising arena of research focused on designing novel environmentally friendly naturally derived and tenable biochemicals from biomass that serve several biosustainable purposes Due to increasing demand in chemical and biochemical products and to minimize industrial space there is an increased need to recycle wastes and design cost effective chemical and biochemical units As such knowledge on the recovery of biochemicals bioconversions and extraction technologies is essential Highlights biotechnologies concepts and commercial developments in the area of biomass to biochemicals production Covers numerous bioprocessing technologies Includes process optimization and recent challenges Provides applications of biobased natural biochemicals Consolidates the most recent research surrounding the disciplines of biochemistry biotechnology biochemical engineering and microbiology

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