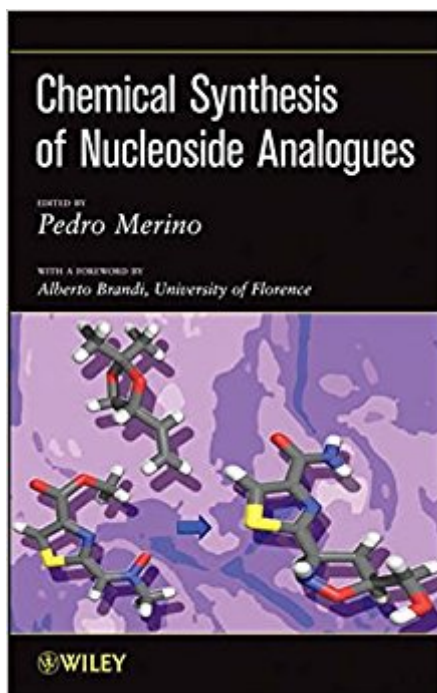


The book was found

Chemical Synthesis Of Nucleoside Analogues



Synopsis

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.

Book Information

Hardcover: 912 pages

Publisher: Wiley; 1 edition (March 25, 2013)

Language: English

ISBN-10: 1118007514

ISBN-13: 978-1118007518

Product Dimensions: 6.2 x 2 x 9.3 inches

Shipping Weight: 3 pounds (View shipping rates and policies)

Average Customer Review: Be the first to review this item

Best Sellers Rank: #3,721,698 in Books (See Top 100 in Books) #57 in Books > Science & Math

> Chemistry > Organic > Synthesis #1188 inÂ Books > Textbooks > Medicine & Health Sciences > Medicine > Clinical > Infectious Diseases #1867 inÂ Books > Medical Books > Medicine > Internal Medicine > Pathology > Diseases > Viral

Customer Reviews

PEDRO MERINO, PhD, is the Director of the Department of Synthesis and Structure of Biomolecules of the Institute of Chemical Synthesis and Homogenous Catalysis at the University of Zaragoza. Dr. Merino has authored more than 200 publications, including several reviews and book chapters. His research spans asymmetric synthesis, target-oriented synthesis, organometallic chemistry, and asymmetric metal-assisted and organic catalysis. Recently, he has been investigating the use of computational chemistry to better understand reaction mechanisms.

[Download to continue reading...](#)

Chemical Synthesis of Nucleoside Analogues Handbook of Reagents for Organic Synthesis: Reagents for Heteroarene Synthesis (Hdbk of Reagents for Organic Synthesis) Analysis, Synthesis and Design of Chemical Processes (4th Edition) (Prentice Hall International Series in the Physical and Chemical Engineering Sciences) Seitan and Beyond: Gluten and Soy-Based Meat Analogues for the Ethical Gourmet Geological Disposal of Radioactive Wastes and Natural Analogues, Volume 2 (Waste Management) Geological Disposal of Radioactive Wastes and Natural Analogues vol 2 (Waste Management) Advanced Organic Chemistry: Part B: Reaction and Synthesis: Reaction and Synthesis Pt. B The Organic Chemistry of Drug Synthesis, Volume 3 (Organic Chemistry Series of Drug Synthesis) Landmarking and Segmentation of 3D CT Images (Synthesis Lectures on Biomedical Engineering Synthesis Lectu) From Bench to Market: The Evolution of Chemical Synthesis The Synthesis and the Physical and Chemical Aspects of the Pyrrole Ring, Volume 48, Part 1, Pyrroles Enantioselective Chemical Synthesis: Methods, Logic, and Practice Analysis, Synthesis and Design of Chemical Processes (3rd Edition) 3rd edition by Turton, Richard, Bailie, Richard C., Whiting, Wallace B., Sh (2009) Hardcover Inventing Chemistry: Herman Boerhaave and the Reform of the Chemical Arts (Synthesis) Chemical Approaches to the Synthesis of Peptides and Proteins (New Directions in Organic & Biological Chemistry) Analysis, Synthesis and Design of Chemical Processes (3rd Edition) 3rd (third) Edition by Turton, Richard, Bailie, Richard C., Whiting, Wallace B., Sh [2009] Fluid Mechanics for Chemical Engineers (McGraw-Hill Chemical Engineering) Unit Operations of Chemical Engineering (7th edition)(McGraw Hill Chemical Engineering Series) Fluid Mechanics for Chemical Engineers (UK Higher Education Engineering Chemical Engineering) Introduction to Chemical Engineering Thermodynamics (The McGraw-Hill Chemical Engineering

Series)

Contact Us

DMCA

Privacy

FAQ & Help