

Synthesis Of Tamiflu And Its Phosphonate Congeners

Sialobiology: Structure, Biosynthesis and Function. Sialic Acid Glycoconjugates in Health and Disease Joe Tiralongo 2013-02-13 This ebook presents a summary of central aspects of sialobiology (i.e., the study of sialic acid and its relevance to biology). The importance of substitution by the sugar sialic acid and the role played by sialylated structures (eg. glycoproteins, glycolipids, glycoconjugates) in immune recognition, neural cell growth, embryogenesis and disease development including microbial pathogenesis and cancer progression, has become well-established. Since 1995, the field of sialobiology has expanded greatly as many of the key enzymes involved in sialic acid biosynthesis, as well as the vast majority of sialic acid binding lectins involved in immune recognition, have only been cloned, characterised and structural elucidated after the publication of earlier works on the subject. This e-book also covers these recent developments. Chapters in this e-book have been contributed by eminent sialobiologists. Therefore, a book of this nature is timely and will prove to be a definitive volume with a high impact in this field for glycobiologists and cell biologists.

Synthesis of Anti-avian Influenza Drug Tamiflu (Oseltamivir Phosphate) from Monosaccharide and Tartaric Acid Boonsong Kongkathip 2012

Antiviral Strategies Hans-Georg Kräusslich 2008-12-02 A crucial issue for antiviral therapy is the fact that all antiviral substances rapidly select for resistance; thus, monitoring and overcoming resistance has become a most important clinical paradigm of antiviral therapy. This calls for cautious use of antiviral drugs and implementation of combination therapies. In parallel, efforts in drug discovery have to be continued to develop compounds with novel mode-of-action and activity against resistant strains. This book reviews the current status of antiviral therapy, from the roads to development of new compounds to their clinical use and cost effectiveness. Individual chapters address in more detail all available drug classes and outline new approaches currently under development.

Total Synthesis of an Anti-avian Influenza Drug Oseltamivir Phosphate (Tamiflu) and Advance Intermediate to Tamiphosphor from D-Ribose Pawinee Wichienukul 2011

Antiviral Drug Strategies Erik De Clercq 2011-04-08 By focusing on general molecular mechanisms of antiviral drugs rather than therapies for individual viruses, this ready reference provides the critical knowledge needed to develop entirely novel therapeutics and to target new viruses. It begins with a general discussion of antiviral strategies, followed by a broad survey of known viral targets, such as reverse transcriptases, proteases, neuraminidases, RNA polymerases, helicases and primases, as well as their known inhibitors. The final section contains several cases studies of recent successful antiviral drug development. Edited by Erik de Clercq, the world authority on small molecule antiviral drugs, who has developed more new antivirals than anyone else.

Virtual Drug Design Daniela Schuster 2020-01-13 In the current drug research environment in academia and industry, cheminformatics and virtual screening methods are well established and integrated tools. Computational tools are used to predict a compound's 3D structure, the 3D structure and function of a pharmacological target, ligand-target interactions, binding energies, and other factors essential for a successful drug. This includes molecular properties such as solubility, logP value, susceptibility to metabolism, cell permeation, blood brain barrier permeation, interaction with drug transporters and potential off-target effects. Given that approximately 40 million unique compounds are readily available for purchase, such computational modeling and filtering tools are essential to support the drug discovery and development process. The aim of all these calculations is to focus experimental efforts on the most promising candidates and exclude problematic compounds early in the project. In this Research Topic on virtual activity predictions, we cover several aspects of this research area such as historical perspectives, data sources, ligand treatment, virtual screening methods, hit list handling and filtering.

Enantioselective Chemical Synthesis Elias J. Corey 2013-10-23 Written by world-renowned and best-selling experts, Nobel Laureate E. J. Corey and Laszlo Kurti, *Enantioselective Chemical Synthesis* offers an

authoritative and comprehensive overview of the field's progress; the processes and tools for key formations; future development for complex, stereocontrolled (enantiomeric or diastereoisomeric) molecules; and valuable examples of multi-step syntheses. Utilizing a color-coded scheme to illustrate chemical transformations, *Enantioselective Chemical Synthesis* provides clear explanation and guidance through vital asymmetrical syntheses and insight into the next steps for the field. Researchers, professionals, and academics will benefit from this valuable, thorough, and unique resource. - In Part I, the authors present clearly, comprehensively and concisely the most useful enantioselective processes available to synthetic chemists. - Part II provides an extensive discussion of the most logical ways to apply these new enantioselective methods to the planning of syntheses of stereochemically complex molecules. This hitherto neglected area is essential for the advancement of enantioselective synthesis to a more rational and powerful level. - Part III describes in detail many reaction sequences which have been used successfully for the construction of a wide variety of complex target molecules - Clearly explains stereochemical synthesis in theory and practice - Provides a handy tool box for scientists wishing to understand and apply chiral chemical synthesis - Describes almost 50 real life examples of asymmetric synthesis in practice and examines how the chiral centers were introduced at key synthetic stages

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