

CHIRAL DRUGS

Chemistry and Biological Action

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Chiral Drugs Chemistry And Biological Action

Al Postigo



Chiral Drugs Chemistry And Biological Action:

Chiral Drugs Guo-Qiang Lin, Qi-Dong You, Jie-Fei Cheng, 2011-08-08 An integrated view of chiral drugs from concept and synthesis to pharmaceutical properties Chirality greatly influences a drug's biological and pharmacological properties In an effort to achieve more predictable results from chiral drugs the Food and Drug Administration now requires that these medicines be as pure as possible which places great demands on drug synthesis purification analysis and testing To assist researchers in acquiring the essential knowledge to meet these rigid guidelines Chiral Drugs focuses on three vital chiral technologies asymmetric synthesis biocatalytic process and chiral resolution to offer details on the basic concepts key developments and recent trends in chiral drug discovery along with The history of chiral drugs development and industrial applications of chiral technologies A section listing twenty five approved or advanced trial chiral drugs that lists each drug name chemical name and properties a representative synthetic pathway pharmacological characterizations and references An interdisciplinary approach combining synthetic organic chemistry medicinal chemistry and pharmacology Nearly two thirds of the drugs on today's market are chiral drugs Reducing and eliminating their negative characteristics is an ongoing and serious challenge for the pharmaceutical industry With its well balanced approach to covering each important aspect of chirality Chiral Drugs champions important strategies for tipping the medical scale in a positive direction for the production of more effective and safer drugs

Chirality and Biological Activity of Drugs Roger J. Crossley, 1995-09-11 This book brings together the theoretical commercial and practical aspects of chirality and biological activity of drugs and acts as a ready reference for the effects of enantiomers of drug substances

Recent Advances in Analytical Techniques: Volume 5 Atta-ur-Rahman, Sibel Ozkan, 2022-01-05 Recent Advances in Analytical Techniques is a series of updates in techniques used in chemical analysis Each volume presents a selection of chapters that explain different analytical techniques and their use in applied research Readers will find updated information about developments in analytical methods such as chromatography electrochemistry optical sensor arrays for pharmaceutical and biomedical analysis The fifth volume of the series features five reviews which demonstrate chemical analysis techniques applied in different disciplines Superior Aspects of Liquid Chromatography Based Mass Spectrometers in Chiral Analysis New Trends in Sample Preparation for Pharmaceutical and Biological Analysis by Chromatographic Methods Qualitative and Quantitative Investigation of Bio Tissues using Microscopy and Data Mining Analytical Techniques For Analysis of Metals and Minerals in The Soil Samples Monitoring Therapeutic Response in Cancers A Raman Spectroscopy Approach

Current Topics in Chirality Takashiro Akitsu, 2021-09-01 Chirality is a concept related not only to organic chemistry but also to each field of natural science Awareness of hierarchy is important for universal and comprehensive understanding As such this book examines myriad subjects related to chirality in chemistry and interdisciplinary applications In contrast to the previous book this new book about chirality includes contributions from authors in many fields of natural science providing a wider overview The book's focus is chirality and

organic chemistry including synthesis and reactions

Adsorption - Fundamental Mechanisms and Applications

Tatyana I. Shabatina, Yana Andreevna Gromova, 2025-07-02 The book *Adsorption Fundamental Mechanisms and Applications* presents recent efforts of different research groups in synthesising and investigating the properties of the obtained adsorbent systems The main physicochemical principles governing the fundamental process of adsorption which underlies many theoretical and practical phenomena in modern science and technology are thoroughly discussed The book covers the following theoretical aspects including adsorption isotherms adsorption mechanisms and the kinetics and thermodynamics of adsorption processes under various conditions The book's chapters combine the description of theoretical foundations with novel applications in catalysis environmental protection and biomedicine Focusing on both classical models and state of the art materials this book serves as a valuable resource for undergraduate and graduate students researchers and professionals seeking a comprehensive understanding of adsorption phenomena and their applications in various fields

Chirality from Molecular Electronic States Takashiro Akitsu, 2019-02-06 In chemistry biology and physics chirality is an important concept in nature Especially in chemistry not only classical stereochemistry but also asymmetric organic synthesis supramolecular chemistry construction of bio related molecules and molecular recognition became indispensable structural chemical keywords However in view of synthetic chemistry and its structural chemistry chemistry dealing with chirality in relation to the more fundamental electronic state is still a minority This book is particularly aimed at chiroptical spectroscopy structural or physical features and theoretical computation of chirality

Processes and Phenomena on the Boundary Between Biogenic and Abiogenic Nature

Olga V. Frank-Kamenetskaya, Dmitry Yu. Vlasov, Elena G. Panova, Sofia N.

Lessovaia, 2019-08-29 The book represents a collection of papers presented at VI International Symposium Biogenic abiogenic interactions in natural and anthropogenic systems that was held on 24-27 September 2018 in Saint Petersburg Russia Papers in this book cover a wide range of topics connecting with interactions between biogenic and abiogenic components in lithosphere biosphere and technosphere The main regarding topics are following methods for studying the interactions between biogenic and abiogenic components geochemistry of biogenic abiogenic systems biomineralization and nature like materials and technologies medical geology biomineralogy and organic mineralogy biomineral interactions in soil biodeterioration of natural and artificial materials biomineral interactions in extreme environment

Signposts to Chiral Drugs

Vitomir Sunjic, Michael Parnham, 2011-05-10 Highlighting 15 selected chiral structures which represent candidate or marketed drugs and their chemical syntheses the authors acquaint the reader with the fascinating achievements of synthetic and medicinal chemistry The book starts with an introduction treating the discovery and development of a new drug entity Each of the 15 subsequent chapters presents one of the target structures and begins with a description of its biological profile as well as any known molecular mechanisms of action underlining the importance of its structural and stereochemical features This section is followed by detailed discussions of synthetic approaches to the chiral target structure highlighting

creative ideas the scaling up of laboratory methods and their replacement by efficient modern technologies for large scale production Nearly 60 synthetic reactions most of them stereoselective catalytic or biocatalytic as well as chiral separating methodologies are included in the book Vitomir Sunjic and Michael J Parnham provide an invaluable source of information for scientists in academia and the pharmaceutical industry who are actively engaged in the interdisciplinary development of new drugs as well as for advanced students in chemistry and related fields

Late-Stage Fluorination of Bioactive Molecules and Biologically-Relevant Substrates Al Postigo, 2018-09-05 Late Stage Fluorination of Bioactive Molecules and Biologically Relevant Substrates reviews how the use of these techniques on compounds with already known and relevant biological activity can provide new pharmaceutical leads with improved medicinal properties The fluorination strategies discussed take into account both conventional and novel reagents including nucleophilic electrophilic those of a radical nature and diverse families of organic compounds such as hetero aromatic rings and aliphatic substrates Drawing on the authors expert knowledge this book provides researchers with a broad set of applicable methods to use in their work Highlights the latest developments in the field in a concise volume Provides details of key fluorinating reagents across diverse families of organic compounds Explores the current applications and future potential of fluorine in drug development

TEXT BOOK OF MEDICINAL CHEMISTRY-I Dr. Prabhat Kumar Upadhyay, Dr. Narsukumari Korrapati, Dr Pichika Mallikarjuna Rao, Dr Balijepalli Madhu Katyayani, Dr. Mak Kit-Kay, Dr. Vishal Trivedi, 2025-05-31 The Text Book of Medicinal Chemistry I is a foundational academic resource tailored for undergraduate pharmacy and life science students It begins with an insightful introduction to the history and development of medicinal chemistry followed by an exploration of essential physicochemical properties such as ionization solubility partition coefficient and bioisosterism that influence drug action The book delves into drug metabolism explaining both Phase I and Phase II reactions and emphasizing the stereochemical aspects affecting biotransformation A significant portion is dedicated to the autonomic nervous system detailing adrenergic and cholinergic neurotransmitters their biosynthesis metabolism receptors and drug interactions Comprehensive coverage is given to sympathomimetic agents and adrenergic antagonists including their classification mechanism of action and SAR The cholinergic section spans both parasympathomimetic agents and cholinergic blockers thoroughly explaining their pharmacological and structural aspects Sedatives and hypnotics such as benzodiazepines and barbiturates are analyzed for their therapeutic role and SAR Antipsychotic drugs including phenothiazine derivatives and newer analogs are presented with clarity The anticonvulsant chapter includes barbiturates hydantoins and newer agents like gabapentin and valproic acid along with mechanisms and SAR The text also explains the classification and use of general anesthetics including inhalation agents and dissociative anesthetics like ketamine In depth sections cover narcotic and non narcotic analgesics their SAR mechanism and therapeutic uses It emphasizes both opioid agonists and antagonists such as morphine and naloxone The final chapter provides detailed information on anti inflammatory drugs including NSAIDs like aspirin ibuprofen and

diclofenac Throughout the book emphasizes structure activity relationships SAR mechanisms of action and pharmacological applications With drug examples and classifications well integrated this book provides a practical application oriented approach to medicinal chemistry It is designed to help students connect chemical structures with pharmacological effects Each chapter encourages critical thinking about how molecular features influence drug behavior The text is organized logically facilitating step by step learning of complex concepts Additionally it bridges the gap between basic science and clinical pharmacy making it ideal for academic and exam preparation

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