

Organoselenium Compounds Biology Medicine Synthesis Biological

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Organoselenium Compounds Biology Medicine Synthesis

Organoselenium shows incredible promise in medicine, particularly cancer therapy. This book discusses organoselenium chemistry and biology in the context of its therapeutic potential, taking the reader through synthetic techniques, bioactivity and therapeutic applications. Divided into three sections, the first section describes synthetic advances in bioactive selenium compounds, revealing how organoselenium compound toxicity, redox properties and specificity can be further tuned.

Organoselenium Compounds in Biology and Medicine (RSC ...

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Organoselenium Compounds in Biology and Medicine ...

Organoselenium Compounds in Biology and Medicine: Synthesis, Biological and Therapeutic Treatments ... In this chapter, different to recent reviews, we recount how organoselenium chemistry and solution analyte chemosensing goals became enmeshed and focus mainly on reactive oxygen species and heavy metal analytes. The mechanics of recognition ...

Chapter 6 - Organoselenium Compounds in Biology and ...

Organoselenium compounds containing pyrazole or phenylthiazole groups: Synthesis, structure, tin(IV) complexes and antiproliferative activity. Applied Organometallic Chemistry 2018 , 32 (4) , e4252.

Organoselenium and Organotellurium Compounds: Toxicology ...

During the last few years, a tremendous effort has been directed toward the synthesis of stable organoselenium compounds. The biochemistry and pharmacology of selenium-based compounds are subjects...

(PDF) Biological importance of organoselenium compounds

Eder João Lenardão, Claudio Santi, Luca Sancineto, Eder João Lenardão, Claudio Santi, Luca Sancineto, Organoselenium Compounds as Reagents and Catalysts to Develop New Green Protocols, New Frontiers in Organoselenium Compounds, 10.1007/978-3-319-92405-2, (1-97), (2018).

Recent Advances in Organoselenium Chemistry - Freudendahl ...

Selenium-based methods in synthetic chemistry have developed rapidly over the past years and are now offering highly useful tools for organic synthesis. Filling the gap for a comprehensive handbook and ready reference, this book covers all modern developments within the field, including biochemical aspects.

Organoselenium Chemistry: Synthesis and Reactions | Wiley

Selenium-containing compounds have been frequently found in several new synthetic and biological active molecules . In a synthetic approach, organoselenium compounds are valuable intermediates in selective reactions, acting as organocatalysts and as selective ligands for soft metals to design complexes .

Oxone®-mediated direct arylselenylation of imidazo[2,1-b ...

Organoselenium compounds are chemical compounds containing carbon-to-selenium chemical bonds. Organoselenium chemistry is the corresponding science exploring their properties and reactivity. Selenium belongs with oxygen and sulfur to the group 16 elements or chalcogens, and similarities in chemistry are to be expected. Selenium can exist with oxidation state −2, +2, +4, +6. Se is the dominant form in organoselenium chemistry. Down the group 16 column, the bond strength becomes increasingly ...

Organoselenium chemistry - Wikipedia

Synthetic organoselenium compounds Although the first report on the synthesis of an organoselenium compound, diethyl selenide, was back in 1836, the development of synthetic organoselenium compounds as antitumor agents is a relatively new and expanding field of research.

Organic selenium compounds as potential chemotherapeutic ...

Jacek Młochowski, Leszek Juchniewicz, Krystian Kloc, Ryszard J. Gryglewski, Andrzej Jakubowski, Anna D. Inglot, Synthesis and Properties of 2-Carboxyalkyl-1,2-benzisoselenazol-3(2H)-ones and Related Organoselenium Compounds as Nitric Oxide Synthase Inhibitors and Cytokine Inducers, Liebigs Annalen, 10.1002/jlac.199619961108, 1996, 11 ...

Über selenhaltige aromatische Verbindungen (VI) - Lesser ...

This book discusses organoselenium chemistry and biology in the context of its therapeutic potential, taking the reader through synthetic techniques, bioactivity and therapeutic applications. Divided into three sections, the first section describes synthetic advances in bioactive selenium compounds, revealing how organoselenium compound toxicity, redox properties and specificity can be further tuned.

Jain V.K., Priyadarsini K.I. (ed.) Organoselenium ...

Among them, compounds with glutathione peroxidase (GPx)-like activity are of particularly concern. We herein report the synthesis of novel series of organoselenocyanates and symmetrical diselenide antioxidants, inspired by the natural redox enzyme, GPx and the synthetic organoselenium ebselen antioxidants.

Organoselenocyanates and symmetrical diselenides redox ...

The corresponding redox properties of the synthesized compounds were assessed employing 2,2-diphenyl-1-picrylhydrazyl (DPPH), glutathione peroxidase (GPx)-like activity and bleomycin dependent DNA damage. In general, diselenides showed preferential cytotoxicity to HepG2 compared to MCF-7 cells.

Combinatorial synthesis, in silico, molecular and ...

Organoselenium Compounds in Biology and Medicine: Synthesis, Biological and Therapeutic Treatments. Oxidative Stress and Redox Signalling in Parkinson's Disease. Peptide-based Drug Discovery: Challenges and New Therapeutics. Photochemistry: Volume 45. Polymerized Ionic Liquids. Sensing Techniques for Food Safety and Quality Control

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Chemistry - Research - VIT

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Aglycone Ebselen and β-d-Xyloside Primed ...

Prof. Atta-ur-Rahman, Ph.D. in organic chemistry (Cambridge University, 1968), has 1,232 publications in several fields of organic chemistry including 771 research publications, 45 international patents, 70 chapters in books and, 341 books published largely by major U.S. and European presses.

CCS ::: Organic Chemistry ~ Editorial Board

DOI: 10.1080/00397910008087348 Corpus ID: 94951635. One-Pot Two-Step Approach to Selenides. Phase-Transfer Catalyzed Synthesis of ω-Hydroxyalkyl Selenides @article{Hu2000OnePotTA, title={One-Pot Two-Step Approach to Selenides.

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