

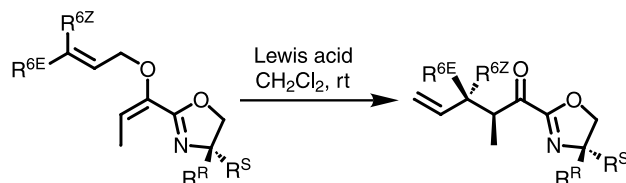
Graphical abstracts

Synthesis and Lewis acid catalyzed Claisen rearrangement of 2-(1,3-oxazolin-2-yl)-substituted allyl vinyl ethers

Hannes Helmboldt and Martin Hiersemann*

Institut für Organische Chemie, Technische Universität Dresden, Bergstraße 66, D-01069 Dresden, Germany

Tetrahedron 59 (2003) 4031

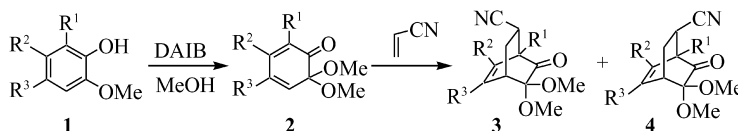


Diels-Alder reactions of masked *o*-benzoquinones with acrylonitrile

Santhosh Kumar Chittimalla and Chun-Chen Liao*

Department of Chemistry, National Tsing Hua University, Hsinchu 300, Taiwan, ROC

Tetrahedron 59 (2003) 4039



Synthesis, structure, and biological evaluation of C-2 sulfonamido pyrimidine nucleosides

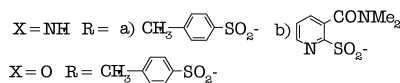
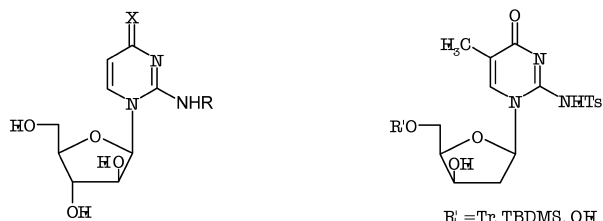
Irena Krizmanić,^a Aleksandar Višnjevac,^b Marija Luić,^b Ljubica Glavaš-Obrovac,^c Mladen Žinić^b and Biserka Žinić^{b,*}

^aHERBOS Chem. Industry, Obrtnička 17, 44000 Sisak, Croatia

^bRuđer Bošković Institute, P.O. Box 180, 10002 Zagreb, Croatia

^cDepartment of Nuclear Medicine and Pathophysiology, Clinical Hospital Osijek, 31000 Osijek, Croatia

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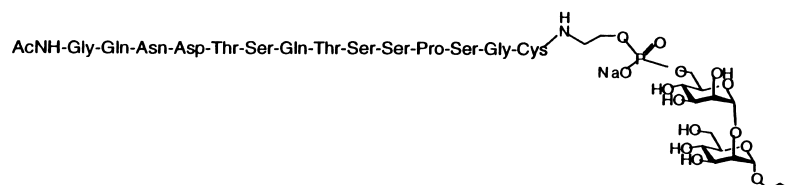
Studies directed toward the synthesis of protein-bound GPI anchor

Yasuko Tanaka, Yuko Nakahara, Hironobu Hojo and Yoshiaki Nakahara*

Department of Applied Biochemistry, Institute of Glycotechnology, Tokai University, Kitakaname 1117, Hiratsuka, Kanagawa 259-1292, Japan

Model studies on reconstruction of the linkage between protein C-terminal and GPI anchor are demonstrated.

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Metal coordination as a tool for controlling the self-assembling and gelation properties of novel type cholic amide–phenanthroline gelating agent

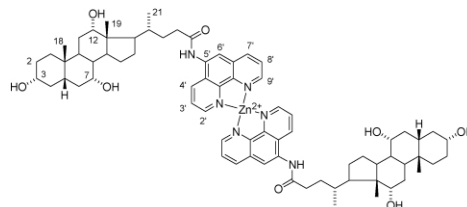
Tetrahedron 59 (2003) 4069

M. Dukh,^{a,b} D. Šaman,^a J. Kroulík,^b I. Černý,^a V. Pouzar,^a V. Král^{a,b,*} and P. Dražar^{a,b,*}

^aInstitute of Organic Chemistry and Biochemistry AS CR, 166 10 Prague 6, Czech Republic

^bDepartment of Analytical Chemistry, Institute of Chemical Technology, Prague, Technická 5, 166 28 Prague 6, Czech Republic

Steroid–phenanthroline conjugate was found to be a powerful gelating agent for methanol–water. Formation of phenanthroline–zinc (II) 2:1 complex changes the gelating properties; when stored, it dissolves into solution and this solution, when heated reversibly forms a gel again. Complexes and gels were studied by spectroscopic methods and SEM.

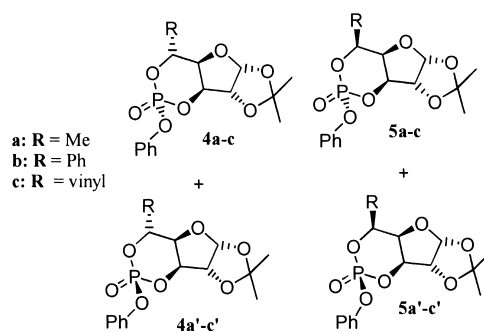


Conformational analysis of cyclic phosphates derived from 5-C' substituted 1,2-O-isopropylidene- α -D-xylofuranose derivatives

Tetrahedron 59 (2003) 4077

Fernando Sartillo-Piscil,^{*} Silvano Cruz, Mario Sánchez, Herbert Höpfl, Cecilia Anaya de Parrodi and Leticia Quintero^{*}

The conformational equilibria of twelve 1,3,2-dioxaphosphorinane derivatives containing a substituent with different steric requirement at the C'5 position have been analysed in solution. The results are supported by X-ray crystallographic studies in the solid-state, which revealed in one case two independent molecules per asymmetric unit, one with a chair and the other one with a boat conformation.



Synthesis of conjugated γ - and δ -lactones from aldehydes and ketones via a vinylation(allylation)-ring closing metathesis–oxidation sequence

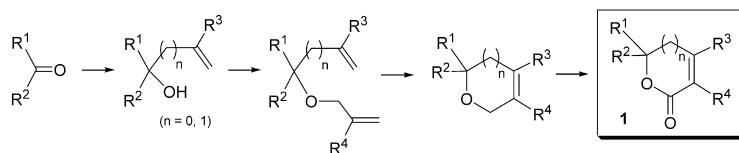
Tetrahedron 59 (2003) 4085

J. Alberto Marco,^{a,*} Miguel Carda,^{b,*} Santiago Rodríguez,^b Encarnación Castillo^b and María N. Kneeteman^b

^aDepartment de Q. Orgánica, Univ. de Valencia, D. Moliner 50, E-46100 Burjassot, Valencia, Spain

^bDepartment de Q. Inorgánica y Orgánica, Univ. Jaume I, Castellón, E-12080 Castellón, Spain

Conjugated γ - and δ -lactones of general formula **1** ($R^3, R^4=H$ or Me) are obtained from aldehydes and ketones through a reaction sequence which includes vinylation or allylation ($n=0, 1$), *O*-allylation, ring-closing metatheses and allylic oxidation.



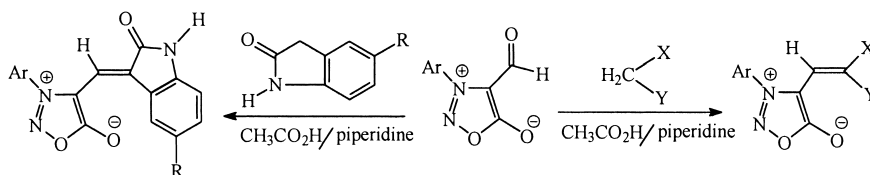
Access to the syntheses of sydnonyl-substituted α,β -unsaturated ketones and 1,3-dihydro-indol-2-ones by modified Knoevenagel reaction

Tetrahedron 59 (2003) 4103

Mei-Hsiu Shih^{a,*} and Mou-Yung Yeh^b

^aDepartment of Chemical Engineering, Southern Taiwan University of Technology, 1 Nan-Tai St. Yung-Kang, Tainan 710, Taiwan, ROC

^bDepartment of Chemistry, National Cheng Kung University, Tainan 701, Taiwan, ROC



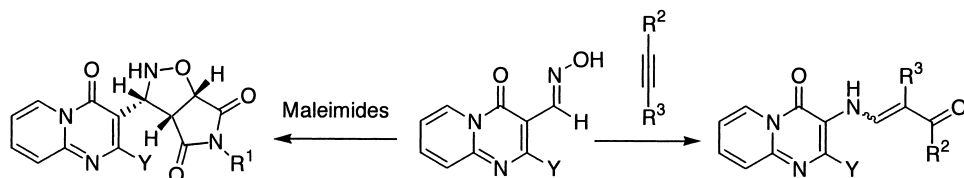
Reaction of 2-substituted-4-oxo-4H-pyrido[1,2-a]pyrimidine-3-carbaldehyde oximes with electron-deficient olefins and acetylenes

Tetrahedron 59 (2003) 4113

Masashi Shirai,^a Hidekazu Kuwabara,^a Satoshi Matsumoto,^a Hidetoshi Yamamoto,^a Akikazu Kakehi^b and Michihiko Noguchi^{a,*}

^aDepartment of Applied Chemistry, Faculty of Engineering, Yamaguchi University, Tokiwadai, Ube 755-8611, Japan

^bDepartment of Chemistry and Material Engineering, Faculty of Engineering, Shinshu University, Wakasato, Nagano 380-8553, Japan

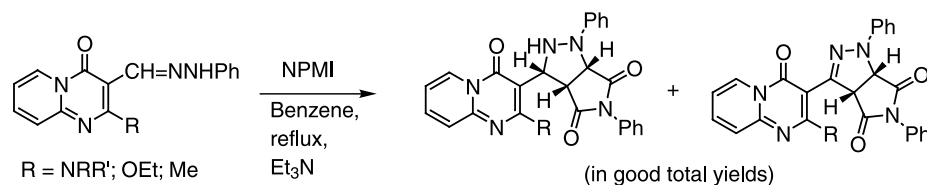


Generation of NH-azomethine imine intermediates through the 1,2-hydrogen shift of hydrazones and their intermolecular cycloaddition reaction with olefinic dipolarophiles

Tetrahedron 59 (2003) 4123

Michihiko Noguchi,^{*} Satoshi Matsumoto, Masashi Shirai and Hidetoshi Yamamoto

Department of Applied Chemistry, Faculty of Engineering, Yamaguchi University, Tokiwadai, Ube, 755-8611, Japan



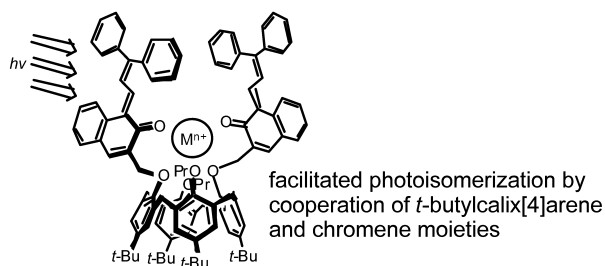
Chromened *t*-butylcalix[4]arenes: cooperation effect of chromene and calixarene moieties on photochromism and metal-ion binding ability

Tetrahedron 59 (2003) 4135

Saleh A. Ahmed,^a Mutsuo Tanaka,^{a,*} Hisanori Ando,^a Hitoshi Iwamoto^b and Keiichi Kimura^{b,*}

^aSpecial Division for Human Life Technology, AIST Kansai, 1-8-31, Midorigaoka, Ikeda, Osaka 563-8577, Japan

^bDepartment of Applied Chemistry, Faculty of Systems Engineering, Wakayama University, 930, Sakae-dani, Wakayama, Wakayama 640-8510, Japan



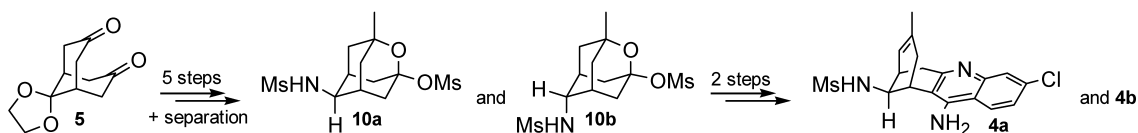
Synthesis of diastereomeric 13-amido-substituted huprines as potential high affinity acetylcholinesterase inhibitors

Tetrahedron 59 (2003) 4143

Pelayo Camps,^{a,*} Elena Gómez,^a Diego Muñoz-Torrero,^a Mercè Font-Bardia^b and Xavier Solans^b

^aLaboratori de Química Farmacèutica (Unitat Associada al CSIC), Facultat de Farmàcia, Universitat de Barcelona, Av. Diagonal, 643, E-08028 Barcelona, Spain

^bDepartament de Cristal·lografia i Dipòsits Minerals, Facultat de Geologia, Universitat de Barcelona, Av. Martí i Franquès, E-08028 Barcelona, Spain

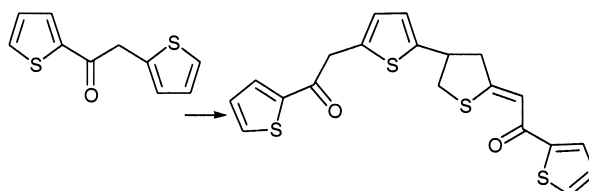


Acid-induced dimerisation of 1,2-di(thien-2-yl)ethanone

Marcel Jaspars, Brian J. Morrison and Oliver C. Musgrave*

Department of Chemistry, The University, Old Aberdeen AB24 3UE, UK

Tetrahedron 59 (2003) 4153

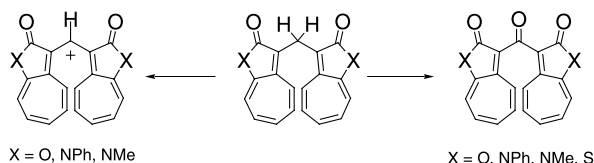


Synthesis and properties of bis(heteroazulen-3-yl)methyl cations and bis(heteroazulen-3-yl)ketones

Shin-ichi Naya and Makoto Nitta*

Department of Chemistry, School of Science and Engineering, Waseda University, Shinjuku-ku, Tokyo 169-8555, Japan

Tetrahedron 59 (2003) 4157

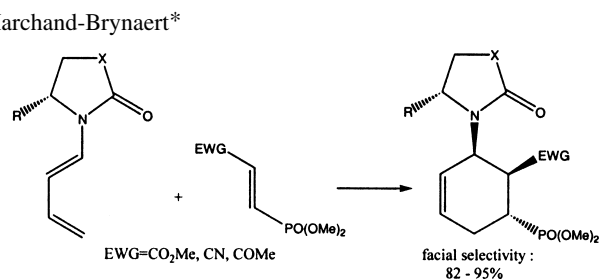


[4+2] Cycloaddition of 1-aminodienes and 2-substituted vinylphosphonates: application to asymmetric synthesis of 3-amino-5-phosphono-1-cyclohexene derivatives

Raphaël Robiette, Nathalie Defacqz, Jimmy Stofferis and Jacqueline Marchand-Brynaert*

Unité de Chimie Organique et Médicinale, Faculté des Sciences, Université catholique de Louvain, Bâtiment Lavoisier, Place Louis Pasteur, no. 1, B-1348 Louvain-la-Neuve, Belgium

Tetrahedron 59 (2003) 4167

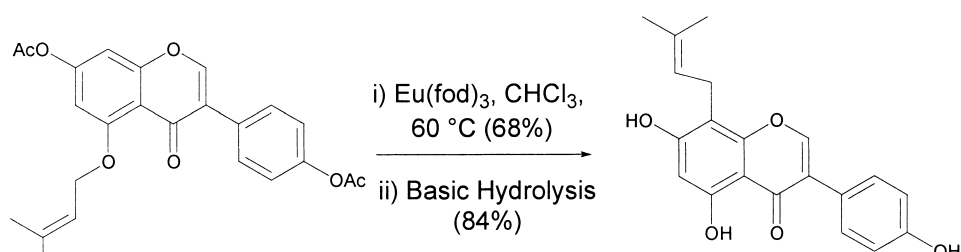


Synthesis of lupiwightone via a *para*-Claisen–Cope rearrangement

Nawaf Al-Maharik and Nigel P. Botting*

School of Chemistry, University of St. Andrews, St. Andrews, Fife KY16 9ST, UK

Tetrahedron 59 (2003) 4177

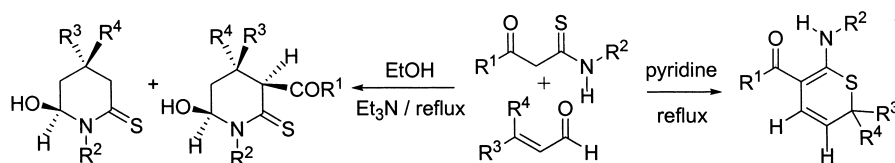


Reactions of β -keto thioamides with α,β -unsaturated aldehydes. Synthesis of 6-hydroxypiperidine-2-thiones and 6H-thiopyrans

Tetrahedron 59 (2003) 4183

Tadeusz S. Jagodziński,* Jacek G. Sońnicki and Aneta Wesołowska

Department of Organic Chemistry, Technical University of Szczecin, Al. Piastów 42, PL-71065 Szczecin, Poland



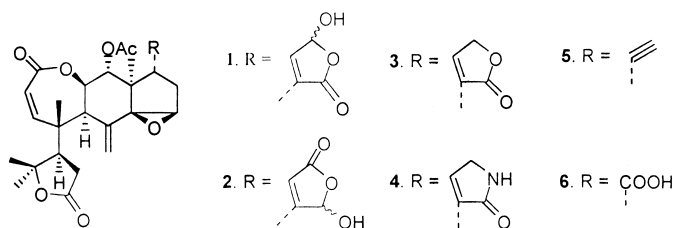
Novel tetranortriterpenoid derivatives from *Munronia henryi*

Tetrahedron 59 (2003) 4193

Shu-Hua Qi,^a Li Chen,^b Da-Gang Wu,^a Yun-Bao Ma^a and Xiao-Dong Luo^{a,*}

^aState Key Laboratory of Phytochemistry and Plant Resources in West China, Kunming Institute of Botany, The Chinese Academy of Sciences, Kunming 650204 Yunnan, People's Republic of China

^bLaboratory of Insect Toxicology, South China Agricultural University, Guangzhou 510642 Guangdong, People's Republic of China



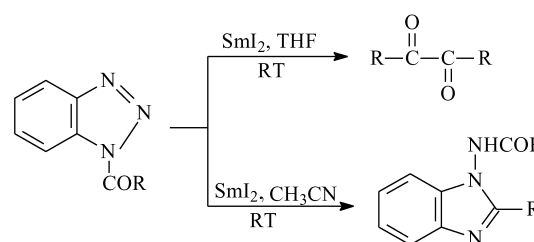
Samarium diiodide promoted formation of 1,2-diketones and 1-acylamido-2-substituted benzimidazoles from N-acylbenzotriazoles

Tetrahedron 59 (2003) 4201

Xiaoxia Wang^a and Yongmin Zhang^{a,b,*}

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^bState Key Laboratory of Organometallic Chemistry, Shanghai Institute of Organic Chemistry, Chinese Academy of Sciences, Shanghai 200032, People's Republic of China



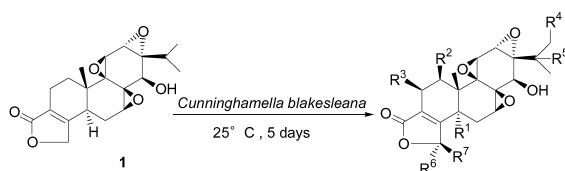
Biotransformation of triptolide by *Cunninghamella blakesleana*

Tetrahedron 59 (2003) 4209

Lili Ning,^{a,b} Jixun Zhan,^a Guiqin Qu,^a Lei Zhong,^a Hongzhu Guo,^a Kaishun Bi^b and Dean Guo^{a,*}

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^bShenyang Pharmaceutical University, Shenyang, Liaoning 110016, People's Republic of China



- 2 R¹=OH, R²=R³=R⁴=R⁵=R⁶=R⁷=H
- 3 R²=OH, R¹=R³=R⁴=R⁵=R⁶=R⁷=H
- 4 R³=OH, R¹=R²=R⁴=R⁵=R⁶=R⁷=H
- 5 R⁴=OH, R¹=R²=R³=R⁵=R⁶=R⁷=H
- 6 R⁵=OH, R¹=R²=R³=R⁴=R⁶=R⁷=H
- 7 R⁶=OH, R¹=R²=R³=R⁴=R⁵=R⁷=H
- 8 R⁷=OH, R¹=R²=R³=R⁴=R⁵=R⁶=H

Identification of anti-inflammatory diterpenes from the marine gorgonian *Pseudopterogorgia elisabethae*

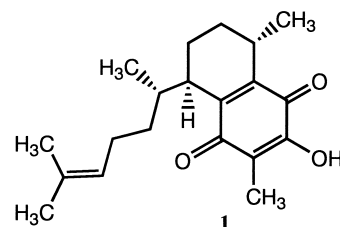
Tetrahedron 59 (2003) 4215

Athar Ata,^a Russell G. Kerr,^{a,*} Claudia E. Moya^b and Robert S. Jacobs^{b,c}

^aDepartment of Chemistry and Biochemistry, Center for Molecular Biology and Biotechnology, Florida Atlantic University, 777 Glades Road, Boca Raton, FL 33431, USA

^bDepartment of Ecology, Evolution and Marine Biology, University of California, Santa Barbara, CA 93106, USA

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Enantioselective alkylation and protonation of prochiral enolates in the asymmetric synthesis of β -amino acids

Tetrahedron 59 (2003) 4223

Omar Muñoz-Muñiz and Eusebio Juaristi*

Departamento de Química, Centro de Investigación y de Estudios Avanzados del Instituto Politécnico Nacional, Apartado Postal 14-740, 07000 México, D.F., Mexico

