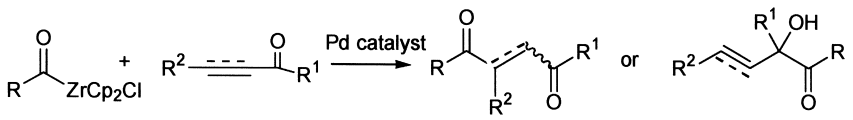
Graphical abstracts

Pd-catalyzed regioselective acylation of α,β-unsaturated ketone derivatives by acylzirconocene chloride as an acyl group donor

Tetrahedron 58 (2002) 7559

Yuji Hanzawa,* Nobuhito Tabuchi, Kensuke Narita, Akito Kakuuchi, Masaya Yabe and Takeo Taguchi*

School of Pharmacy, Tokyo University of Pharmacy and Life Science, 1432-1 Horinouchi, Hachioji, Tokyo 192-0392, Japan

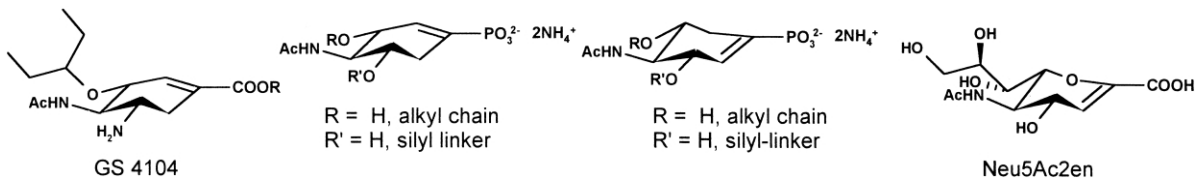


Synthesis of functionalized cyclohexenephosphonates and their inhibitory activity towards bacterial sialidases

Tetrahedron 58 (2002) 7573

Hansjörg Streicher* and Christoph Bohner

Department of Chemistry, University of Konstanz, D-78457 Konstanz, Germany

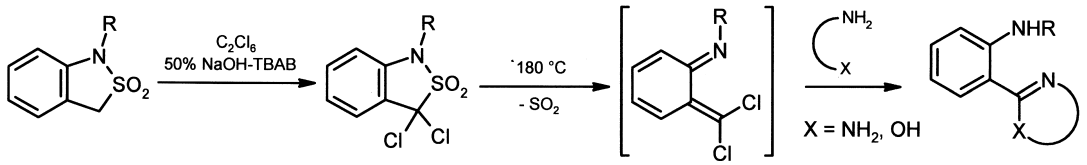


Reactions of 6-(dichloromethylene)cyclohexa-2,4-dien-1-alkylimines with amines

Tetrahedron 58 (2002) 7583

Krzysztof Wojciechowski,* Urszula Siedlecka, Helena Modrzejewska and Szymon Kosiński

Institute of Organic Chemistry, Polish Academy of Sciences, ul. Kasprzaka 44/52, P.O. Box 58, PL-01-224 Warszawa 42, Poland



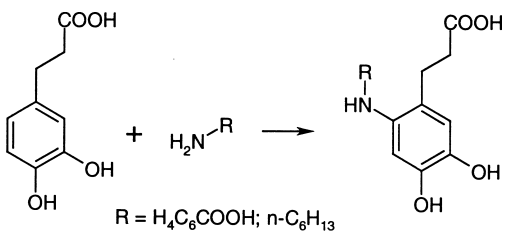
Synthesis of 3-(3,4-dihydroxyphenyl)-propionic acid derivatives by N-coupling of amines using laccase

Tetrahedron 58 (2002) 7589

Annett Mikolasch,* Elke Hammer, Ulrike Jonas, Katrin Popowski, Anne Stielow and Frieder Schauer

Institut für Mikrobiologie, Ernst-Moritz-Arndt-Universität Greifswald, Friedrich-Ludwig-Jahn-Str. 15, D-17489 Greifswald, Germany

Derivatization of the natural compound 3-(3,4-dihydroxyphenyl)-propionic acid can be achieved by laccase-catalyzed N-coupling of aromatic and aliphatic amines.

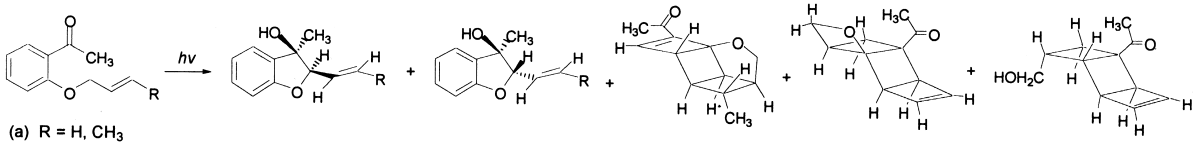


Investigations on photochemistry of *o*-allyloxy-/ crotyloxyacetophenones: formation of unexpected intramolecular arene–olefin addition products on n–π* excitation of ketones

Tetrahedron 58 (2002) 7595

Rajinder Singh and M. P. S. Ishar*

Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar 143 005 Punjab, India

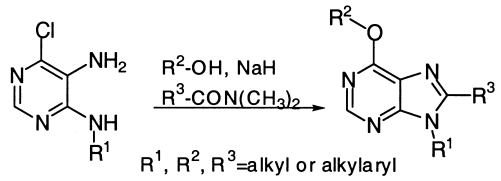


An efficient one-pot synthesis of 6-alkoxy-8,9-dialkylpurines via reaction of 5-amino-4-chloro-6-alkylaminopyrimidines with *N*,*N*-dimethylalkaneamides and alkoxide ions

Tetrahedron 58 (2002) 7607

Pier Giovanni Baraldi,[a,*] Asier Unciti Broceta,[b] Maria Josè Pineda de las Infantas,[b] Juan Josè Dìaz Mochun,[b] Antonio Espinosa[b] and Romeo Romagnoli[a]

[a]*Dipartimento di Scienze Farmaceutiche, Università di Ferrara, via Fossato di Mortara 17/19, I-44100 Ferrara, Italy*
[b]*Departamento de Quimica Organica y Farmaceutica, Facultad de Farmacia, Campus de Cartuja s/n, Granada, Spain*

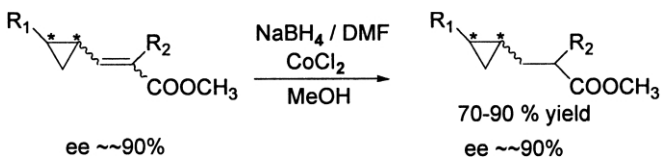


Selective reduction of stereodefined cyclopropyl substituted acrylate esters to the corresponding propionate esters

Tetrahedron 58 (2002) 7613

Rong He and Min-Zhi Deng*

State key Laboratory of Organometallic Chemistry, Shanghai Institute of Organic Chemistry, The Chinese Academy of Sciences, 354 Fenglin Road, Shanghai 200032, People's Republic of China



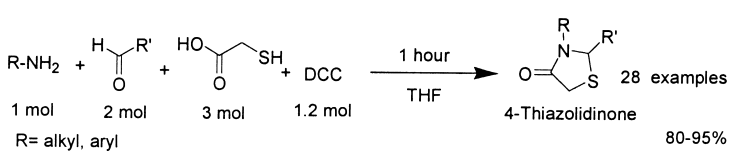
Carbodiimide mediated synthesis of 4-thiazolidinones by one-pot three-component condensation

Tetrahedron 58 (2002) 7619

Tumul Srivastava, W. Haq and S. B. Katti*

Medicinal Chemistry Division, Central Drug Research Institute, Lucknow 226 001, India

4-Thiazolidinones have been assembled by DCC mediated three-component reaction of amine, aldehyde and mercaptoacetic acid. The final compounds are obtained in quantitative yields within one hour.

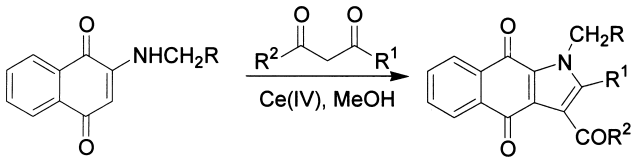


Cerium salts in the oxidative free radical reactions between 2-amino-1,4-naphthoquinones and β-dicarbonyl compounds

Tetrahedron 58 (2002) 7625

Chih-Chung Tseng, Yi-Lung Wu and Che-Ping Chuang*

Department of Chemistry, National Cheng Kung University, Tainan 70101, Taiwan, ROC

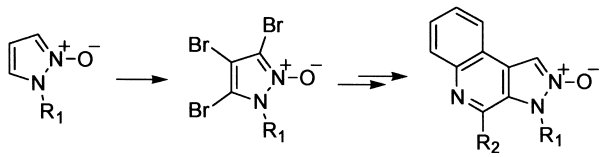


Halogen dance in pyrazole 1-oxides: synthesis of pyrazolo[3,4-*c*]quinoline 1-oxides

Tetrahedron 58 (2002) 7635

Jørgen Eskildsen,[a] Niels Østergaard,[a,b] Per Vedsø[a] and Mikael Begtrup[a,*]

[a]*Department of Medicinal Chemistry, The Royal Danish School of Pharmacy, Universitetsparken 2, DK-2100 Copenhagen, Denmark*
[b]*ACADIA Pharmaceuticals A/S, Fabriksparken 58, DK-2600 Glostrup, Denmark*



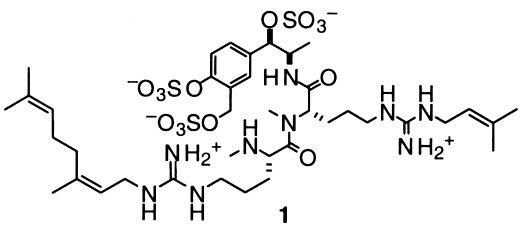
Aeruginoguanidines 98-A–98-C: cytotoxic unusual peptides from the cyanobacterium *Microcystis aeruginosa*

Tetrahedron 58 (2002) 7645

Keishi Ishida, Hisashi Matsuda, Yuji Okita and Masahiro Murakami*

Laboratory of Marine Biochemistry, Graduate School of Agricultural and Life Sciences, The University of Tokyo, Bunkyo-ku, Tokyo 113-8657, Japan

Novel and unusual peptides, aeruginoguanidines 98-A (**1**) to 98-C, were isolated from the cyanobacterium *Microcystis aeruginosa*. These structures were elucidated on the basis of 2D NMR. These compounds showed moderate cytotoxicity against the P388 murine leukemia cells.



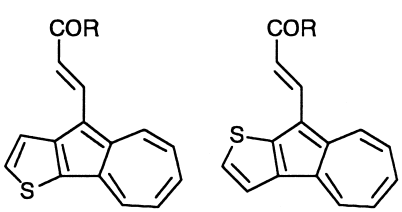
1

Novel and facile synthesis of β-(4-azuleno[1,2-*b*]thienyl)- and β-(4-azuleno[2,1-*b*]thienyl)-α,β-unsaturated ketones by intramolecular tropylium ion-mediated furan ring-opening reaction

Tetrahedron 58 (2002) 7653

Kimiaki Yamamura,* Naoki Kusuhara, Akihiro Kondou and Masao Hashimoto

Department of Chemistry, Faculty of Science, Kobe University, Nada, Kobe 657-8501, Japan



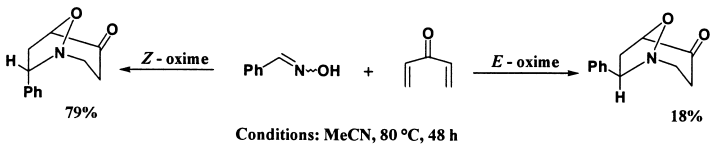
X=Y–ZH systems as potential 1,3-dipoles. Part 56: Cascade 1,3-azaprotio cyclotransfer–cycloaddition reactions between aldoximes and divinyl ketone: the effect of oxime *E*/*Z* isomerism on cycloaddition stereoselectivity

Tetrahedron 58 (2002) 7715

Mark Blackwell,[a] Peter J. Dunn,[b] Alison B. Graham,[a] Ronald Grigg,[a,*] Paul Higginson,[b] Imaad S. Saba[a] and Mark Thornton-Pett[a]

[a]*Molecular Innovation, Diversity and Automated Synthesis (MIDAS) Centre, School of Chemistry, The University of Leeds, Woodhouse Lane, Leeds LS2 9JT, UK*
[b]*Pfizer Global Research and Development (UK), Sandwich, Kent CT13 9NJ, UK*

endo/*exo*-Ratio is controlled by the *E*/*Z*-geometry of the oxime and its configurational stability at 80°C.



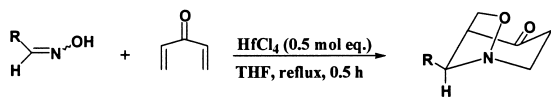
X=Y–ZH systems as potential 1,3-dipoles. Part 57: Cascade 1,3-azaprotio cyclotransfer–cycloaddition reactions between aldoximes and divinyl ketone: remarkable rate enhancement and control of cycloaddition regiochemistry by Lewis acids

Tetrahedron 58 (2002) 7727

Peter J. Dunn,[a] Alison B. Graham,[b] Ronald Grigg,[b,*] Paul Higginson[a] and Mark Thornton-Pett[b]

[a]*Pfizer Global Research & Development (UK), Sandwich, Kent CT13 9NJ, UK*
[b]*Molecular Innovation, Diversity and Automated Synthesis (MIDAS) Centre, School of Chemistry, The University of Leeds, Woodhouse Lane, Leeds LS2 9JT, UK*

Use of substoichiometric amounts of $HfCL_4$, $ZrCl_4$ or $AlCl_3$ generate *exo*-1-aza-7-oxabicyclo[3.2.1]octan-4-ones stereo- and regioselectively.



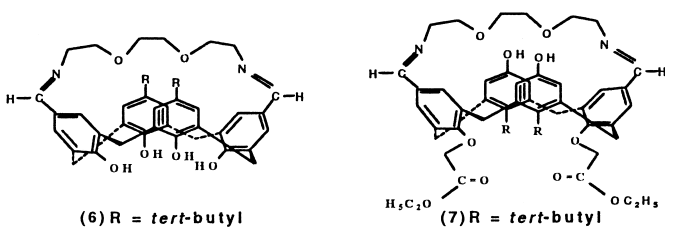
Synthesis and study of allosteric effects on extraction behavior of novel calixarene-based dichromate anion receptors

Tetrahedron 58 (2002) 7735

Aydan Yilmaz, Shahabuddin Memon and Mustafa Yilmaz*

Department of Chemistry, Selçuk University, 42031 Konya, Turkey

The upper and lower rims of *p*-*tert*-butylcalix[4]arene were modified and two new calix[4]arene-based azacrown ionophores have been synthesized in order to acquire binding sites for the recognition of metal cations and dichromate anions.



Synthesis of tools for raising antibodies against moenomycin epitopes and initial immunological studies

Tetrahedron 58 (2002) 7741

Andrij Buchynskyy,[a] Katherina Stembera,[a] Dietmar Knoll,[a] Stefan Vogel,[a] Uwe Kempin,[a] Astrid Biallaß (née Donnerstag),[a] Lothar Hennig,[a] Matthias Findeisen,[a] Dietrich Müller[b] and Peter Welzel[a,*]

[a]*Fakultät für Chemie und Mineralogie, Institut für Organisshe Chemie, Universität Leipzig, Talstr. 35, D-04103 Leipzig, Germany*
[b]*Institut für Analytische Chemie, Ruhr-Universität Bochum, D-44780 Bochum, Germany*