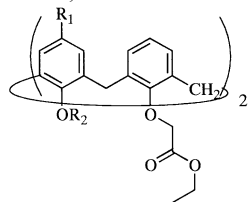


Synthesis of novel chromogenic bi- and tri-functionalized calix[4]arenes

Tetrahedron Letters 43 (2002) 3785

Hatem Halouani, Isabelle Dumazet-Bonnamour* and Roger Lamartine

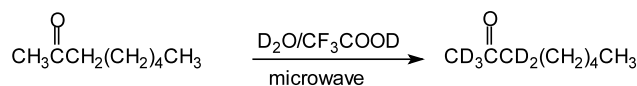
Laboratoire de Chimie Industrielle, UMR CNRS 5078, Université Claude Bernard-Lyon1, 43 Bd du 11 November 1918, 69622 Villeurbanne Cedex, France



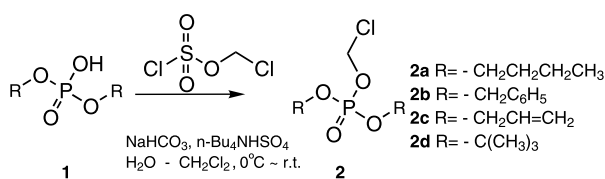
Compound	R ₁	R ₂
L ₁	-N ₂ Ph	-H
L ₂	-N ₂ PhNO ₂	-H
L ₃	-N ₂ Ph	-CH ₂ CO ₂ C ₂ H ₅
L ₄	-N ₂ PhNO ₂	-CH ₂ CO ₂ C ₂ H ₅
L ₅	-N ₂ Ph	-CH ₂ CONHCH ₂ CO ₂ C ₂ H ₅
L ₆	-N ₂ PhNO ₂	-CH ₂ CONHCH ₂ CO ₂ C ₂ H ₅

Microwave-assisted deuterium exchange reactions for the preparation of reactive intermediates

Tetrahedron Letters 43 (2002) 3789

Katalin Fodor-Csorba,^{a,*} Giancarlo Galli,^b Sándor Holly^c and Eszter Gács-Baitz^c^aResearch Institute for Solid State Physics and Optics of the Hungarian Academy of Sciences, PO Box 49, H-1525 Budapest, Hungary^bDipartimento di Chimica e Chimica Industriale, Università di Pisa, Via Risorgimento 35, 56126 Pisa, Italy^cChemical Research Center of the Hungarian Academy of Sciences, Institute for Chemistry, PO Box 17, H-1525 Budapest, Hungary**A novel synthetic route for the preparation of alkyl and benzyl chloromethyl phosphates**

Tetrahedron Letters 43 (2002) 3793

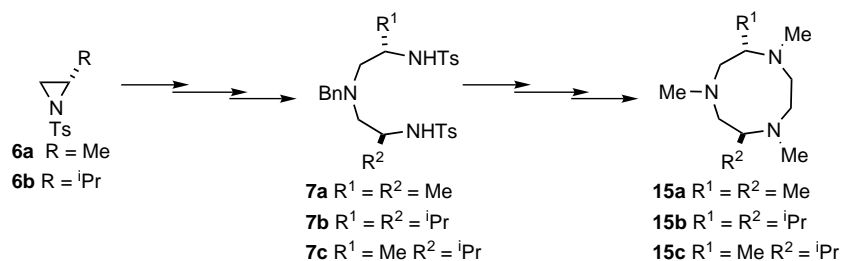
Antti Mäntylä,^{a,*} Jouko Vepsäläinen,^b Tomi Järvinen^a and Tapio Nevalainen^a^aDepartment of Pharmaceutical Chemistry, University of Kuopio, PO Box 1627, FIN-70211 Kuopio, Finland^bDepartment of Chemistry, University of Kuopio, PO Box 1627, FIN-70211 Kuopio, Finland**The synthesis of chiral annulet 1,4,7-triazacyclononanes**

Tetrahedron Letters 43 (2002) 3795

Gilles Argouarch, Colin L. Gibson,* Graham Stones and David C. Sherrington

Department of Pure & Applied Chemistry, University of Strathclyde, 295 Cathedral Street, Glasgow G1 1XL, UK

Novel and flexible routes for the synthesis of chiral ring annulet 2,6-disubstituted 1,4,7-trimethyl-1,4,7-triazamacrocycles are described. These macrocycles together with manganese(II) catalysed the asymmetric epoxidation of styrene.



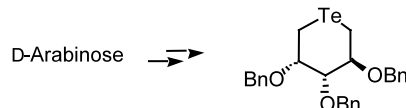
Preparation of 5-telluropentopyranose sugars from common pentose starting materials

Tetrahedron Letters 43 (2002) 3799

Oanh T. K. Nguyen and Carl H. Schiesser*

School of Chemistry, The University of Melbourne, Victoria 3010, Australia

D- and L-2,3,4-Tri-*O*-benzyl-1,5-dideoxy-5-telluroarabinose are readily prepared by treatment of D- and L-2,3,4-tri-*O*-benzyl-1,5-di-*O*-methanesulfonylarabitol with sodium telluride (Na₂Te) in ethanol.

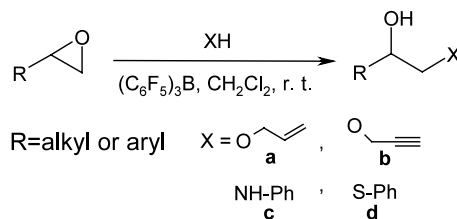


Highly efficient cleavage of epoxides catalyzed by B(C₆F₅)₃

Tetrahedron Letters 43 (2002) 3801

S. Chandrasekhar,* Ch. Raji Reddy, B. Nagendra Babu and G. Chandrashekar

Indian Institute of Chemical Technology, Hyderabad 500 007, India



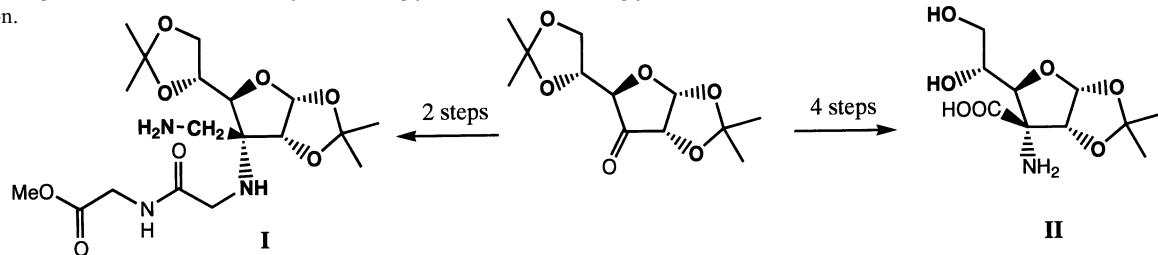
Novel conformationally restricted glycoamino acids from glyco- α -aminonitriles as potent turn mimics in peptide synthesis

Tetrahedron Letters 43 (2002) 3805

Albert Nguyen Van Nhien, H el ene Ducatel, Christophe Len and Denis Postel*

Laboratoire des Glucides Universit e de Picardie-Jules Verne, 33 rue Saint Leu, 80039 Amiens, France

Two strategies are described for the synthesis of glycoamino acids from glyco- α -aminonitriles which have the C α in a non-anomeric position.



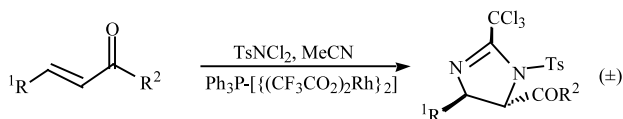
New catalytic diamination of alkenes provides a novel access to 1-*p*-toluenesulfonyl-3-trichloromethyl-4,5-imidazolines

Tetrahedron Letters 43 (2002) 3809

Han-Xun Wei, Sara Siruta and Guigen Li*

Department of Chemistry and Biochemistry, Texas Tech University, Lubbock, TX 79409-1061, USA

A new catalytic system has been established to convert α,β -unsaturated esters and ketones into 4-*p*-toluenesulfonyl-3-trichloromethyl-4,5-imidazolines regio- and stereoselectively. The reaction was achieved by using the complex of triphenylphosphine with rhodium(II) acetate as the catalyst.



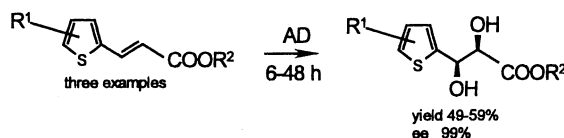
First controlled asymmetric dihydroxylation of thiophene acrylates

Tetrahedron Letters 43 (2002) 3813

Carlo Bonini,* Maurizio D'Auria and Pietro Fedeli

Dipartimento di Chimica, Università della Basilicata, Via N. Sauro 85, 85100 Potenza, Italy

The AD of thiophene acrylates afforded the corresponding diols with high ee and good overall yields. The reactivity of the acrylates is enhanced by adding up to 2% of catalyst.

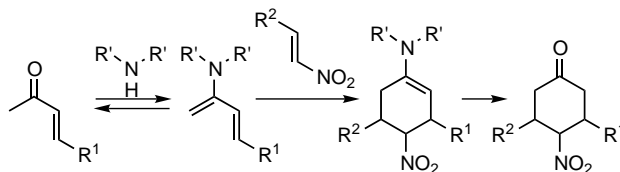


Amine-catalyzed direct Diels–Alder reactions of α,β -unsaturated ketones with nitro olefins

Tetrahedron Letters 43 (2002) 3817

Rajeswari Thayumanavan, Buchiramachary Dhevalapally, Kandasamy Sakthivel, Fujie Tanaka* and Carlos F. Barbas, III*

The Skaggs Institute for Chemical Biology and the Department of Molecular Biology, The Scripps Research Institute, 10550 North Torrey Pines Road, La Jolla, CA 92037, USA

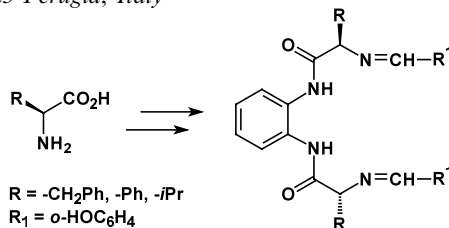


Novel chiral Schiff base ligands from amino acid amides and salicylaldehyde

Tetrahedron Letters 43 (2002) 3821

Massimo Curini,* Francesco Epifano,* Federica Maltese and Maria C. Marcotullio

Dipartimento di Chimica e Tecnologia del Farmaco, Sezione di Chimica Organica, Facoltà di Farmacia, Università degli Studi, Via del Liceo, 06123 Perugia, Italy



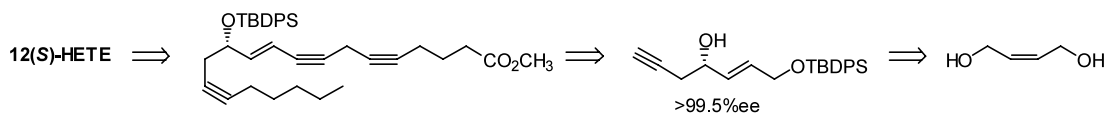
A versatile asymmetric synthesis of highly enantiomerically enriched 12(S)-HETE via a combination of enzymatic and chemical processes

Tetrahedron Letters 43 (2002) 3825

Young-Ger Suh,^{a,*} Kyung-Hoon Min,^a Yong-Sil Lee,^a Seung-Yong Seo,^a Seok-Ho Kim^a and Hyun-Ju Park^b

^aCollege of Pharmacy, Seoul National University, San 56-1, Shinrim-Dong, Kwanak-Gu, Seoul 151-742, South Korea

^bCollege of Pharmacy, Sungkyunkwan University, Suwon 440-746, South Korea

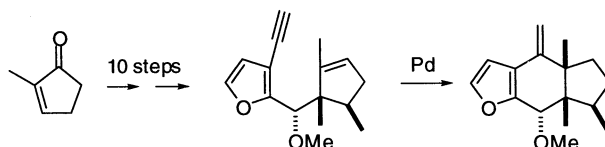


Total synthesis of 7-O-methyldehydropinguisol by palladium-catalyzed 1,7-enyne cycloisomerization

Tetrahedron Letters 43 (2002) 3829

Kenichi Harada, Yasutoshi Tono, Hiroaki Kato and Yoshiyasu Fukuyama*

Institute of Pharmacognosy, Faculty of Pharmaceutical Sciences, Tokushima Bunri University, Tokushima 770-8514, Japan



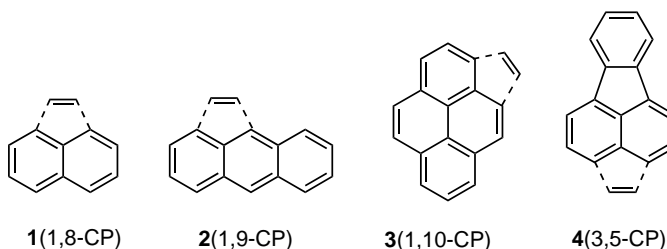
Externally-fused cyclopenta moieties in non-alternant CP-PAHs act as *peri*-substituents

Tetrahedron Letters 43 (2002) 3833

Carola Koper, Leonardus W. Jenneskens* and Martin Sarobe

Debye Institute, Department of Physical Organic Chemistry, Utrecht University, Padualaan 8, 3584 CH Utrecht, The Netherlands

The Hammett constants σ_m for the CP-moiety in **1**(1,8-CP) 0.42, **2**(1,9-CP) 0.45, **3**(1,10-CP) 0.41, **4**(3,5-CP) 0.41 are nearly identical.

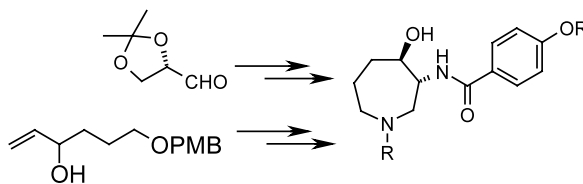


An efficient approach for the synthesis of the hexahydroazepine segment of balanol

Tetrahedron Letters 43 (2002) 3837

J. S. Yadav* and Ch. Srinivas

Division of Organic Chemistry-I, Indian Institute of Chemical Technology, Hyderabad 500 007, India



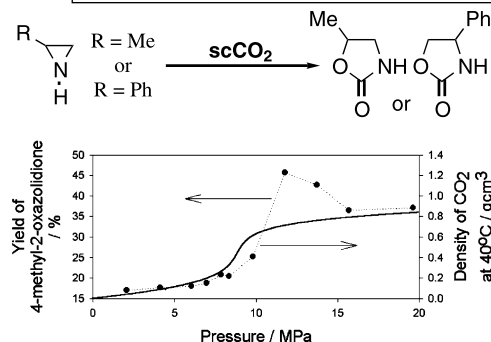
Regioselectivity and selective enhancement of carbon dioxide fixation of 2-substituted aziridines to 2-oxazolidinones under supercritical conditions

Tetrahedron Letters 43 (2002) 3841

Hajime Kawanami* and Yutaka Ikushima

Supercritical Fluid Research Center, National Institute of Advanced Industrial Science and Technology, and CREST, Japan Science and Technology Corporation (JST), 4-2-1 Nigatake, Miyagino-ku, Sendai, Miyagi 983-8551, Japan

Under supercritical CO₂ conditions, regioselectivity in the carbon dioxide fixation of 2-methyl aziridine to 4-methyl-2-oxazolidinone was accelerated at 11.8 MPa with good yields around 75%.



Taibaihenryiin C, a diterpenoid with a novel skeleton from *Isodon henryi*

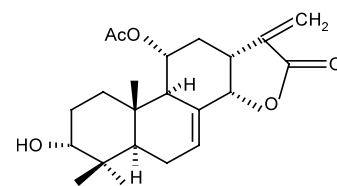
Bao-Lin Li,^{a,*} Yuan-Jiang Pan^b and Kai-Bei Yu^c

^a*School of Chemistry and Material Science, Shaanxi Normal University, Xi'an, Shaanxi 710062, China*

^b*Department of Chemistry, Zhejiang University, Hangzhou, Zhejiang 310027, China*

^c*Chengdu Institute of Organic Chemistry, Academia Sinica, Chengdu, Sichuan 610041, China*

Tetrahedron Letters 43 (2002) 3845



Taibaihenryiin C

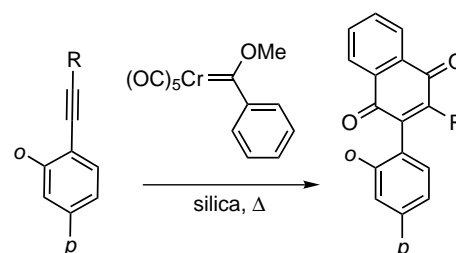
Steric and electronic limitations for the Dötz benzannulation of aromatic alkynes

James C. Anderson,^{a,*} John W. Cran^a and N. Paul King^b

^a*School of Chemistry, University of Nottingham, Nottingham NG7 2RD, UK*

^b*GlaxoSmithKline Research and Development, Medicines Research Centre, Gunnels Wood Road, Stevenage, Hertfordshire SG1 2NY, UK*

Tetrahedron Letters 43 (2002) 3849

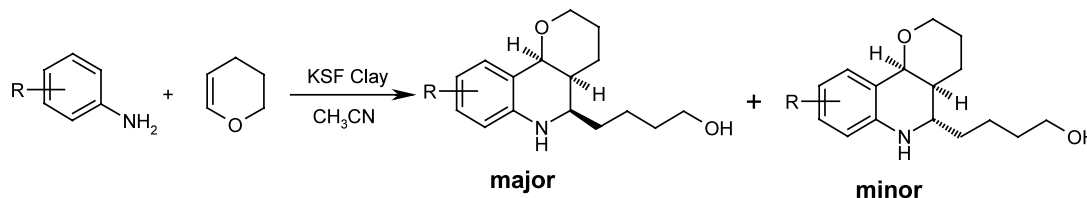


Montmorillonite clay-catalyzed [4+2] cycloaddition reactions: a facile synthesis of pyrano- and furanoquinolines

J. S. Yadav,^{*} B. V. S. Reddy, K. Sadasiv and P. S. R. Reddy

Division of Organic Chemistry Indian Institute of Chemical Technology, Hyderabad 500 007, India

Tetrahedron Letters 43 (2002) 3853

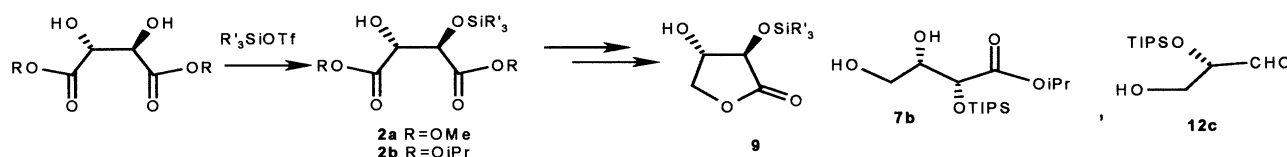


On the direct 2,3-hydroxyl-group differentiation of tartaric acid esters

James McNulty^{*} and Justin Mao

Institute of Molecular Catalysis, Department of Chemistry, Brock University, St. Catharines, Ontario, Canada L2S 3A1

Tetrahedron Letters 43 (2002) 3857



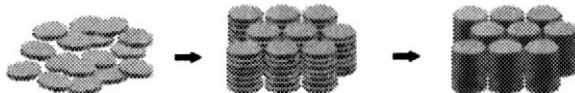
Synthesis of a polymerizable discotic liquid crystalline compound with a 1,3,5-triazine core

Tetrahedron Letters 43 (2002) 3863

Cheol Ju Lee, Seung Ju Lee and Ji Young Chang*

School of Materials Science and Engineering, and Hyperstructured Organic Materials Research Center, College of Engineering ENG445, Seoul National University, Seoul 151-744, South Korea

A polymerizable discotic liquid crystal with a 1,3,5-triazine core was prepared.

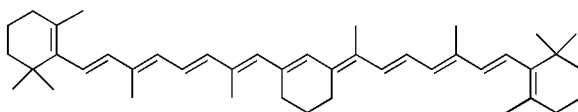


Synthesis of C15,C14'-ring locked all-trans-β-carotene

Tetrahedron Letters 43 (2002) 3867

Pulgam Veera Reddy and Babak Borhan*

Department of Chemistry, Michigan State University, East Lansing, MI 48824, USA

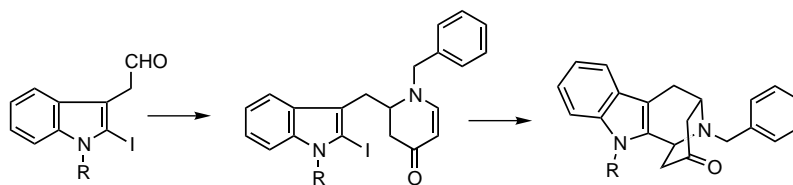


Aza-Diels–Alder/intramolecular Heck cyclization approach to the tetrahydro-β-carboline skeleton of the ajmaline/sarpagine alkaloids

Tetrahedron Letters 43 (2002) 3871

Jeffrey T. Kuethe,* Audrey Wong, Ian W. Davies and Paul J. Reider

Department of Process Research, Merck & Co., PO Box 2000, Rahway, NJ 07065, USA



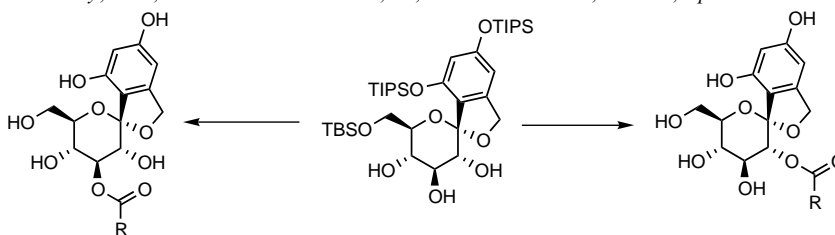
A novel approach to the regioselective acylation of spirocyclic C-glucoside of papulacandins

Tetrahedron Letters 43 (2002) 3875

Chafiq Hamdouchi,^{a,*} Carlos Jaramillo,^b Javier Lopez-Prados^b and Almudena Rubio^a

^aLilly Research Laboratories, A division of Eli Lilly and Company, Lilly Corporate Center, DC 0548, Indianapolis, IN 46285, USA

^bCentro de Investigacion Lilly, S.A., Avenida de la Industria, 30, 28108 Alcobendas, Madrid, Spain



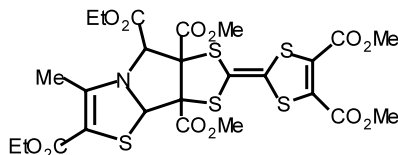
Unexpected reaction of dimethoxycarbonyl dithiole-2-thione or tetramethoxycarbonyl TTF as dipolarophiles

Tetrahedron Letters 43 (2002) 3879

Renata Toplak,^a Patricia Bénard-Rocherullé^b and Dominique Lorcy^{a,*}

^a*Synthèse et Electrosynthèse Organiques, UMR CNRS 6510, Université de Rennes 1, campus de Beaulieu, 35042 Rennes cedex, France*

^b*Chimie du Solide et Inorganique Moléculaire, UMR CNRS 6511, Université de Rennes 1, 35042 Rennes cedex, France*



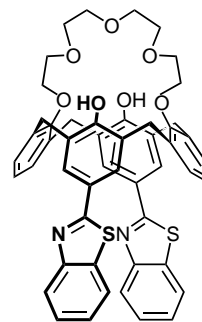
A new fluorogenic benzothiazolyl ionophore based upon calix[4]-arene-crown-5 ether for calcium determination in aqueous media

Tetrahedron Letters 43 (2002) 3883

Young Hee Kim, Na Ri Cha and Suk-Kyu Chang*

Department of Chemistry, Chung-Ang University, Seoul 156-756, South Korea

A new benzothiazolyl functionalized ionophore based upon the calix[4]arene-crown-5 ether exhibited Ca²⁺-selective fluoroionophoric properties among the surveyed physiologically important metal ions of Na⁺, K⁺, and Mg²⁺ in aqueous media.

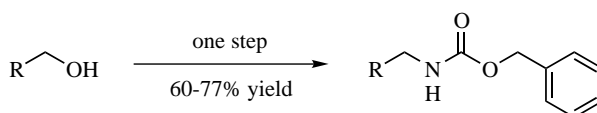


A novel, one-step method for the conversion of primary alcohols into carbamate-protected amines

Tetrahedron Letters 43 (2002) 3887

Michael R. Wood,* June Y. Kim and Kathy M. Books

Department of Medicinal Chemistry, Merck Research Laboratories, PO Box 4, West Point, PA 19486, USA



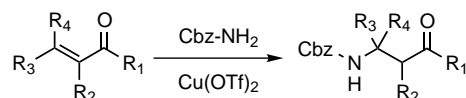
Convenient synthesis of Cbz-protected β-amino ketones by a copper-catalysed conjugate addition reaction

Tetrahedron Letters 43 (2002) 3891

Tobias C. Wabnitz and Jonathan B. Spencer*

University Chemical Laboratory, Lensfield Road, Cambridge CB2 1EW, UK

Benzyl carbamates are used as nucleophiles in a Cu(II)-catalysed conjugate addition reaction to α,β-unsaturated ketones, leading to Cbz-protected β-amino ketones. Related weakly basic nitrogen nucleophiles can also be used. The reaction takes place under very mild conditions.

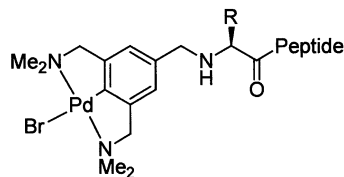


Palladium(II) pincer complexes of α -amino acids: towards the synthesis of catalytically active artificial peptides

Tetrahedron Letters 43 (2002) 3895

Gabriela Guillena, Gema Rodríguez and Gerard van Koten*

Debye Institute, Department of Metal-Mediated Synthesis, Utrecht University, Padualaan 8, 3584 CH Utrecht, The Netherlands



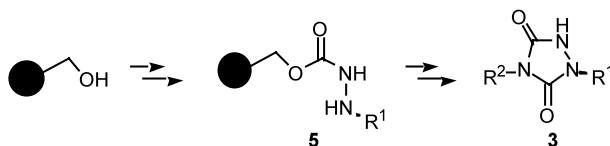
Solid-phase synthesis of 1,2,4-triazolidine-3,5-diones

Tetrahedron Letters 43 (2002) 3899

Kyung-Ho Park* and Linda J. Cox

DuPont Central Research and Development, Chemical Science and Engineering, Experimental Station, PO Box 80328, Wilmington, DE 19880-0328, USA

A traceless synthesis of 1,2,4-triazolidine-3,5-diones has been achieved through *cyclo*-elimination from solid-phase. This traceless *cyclo*-elimination release step is induced by catalytic amount of base or by simply refluxing the urea carbamate intermediate.



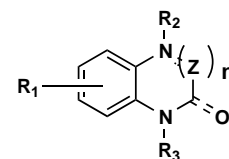
Solid-phase synthesis of 'diverse' heterocycles

Tetrahedron Letters 43 (2002) 3903

Ashok V. Purandare,* Aiming Gao and Michael A. Poss

New Leads Chemistry, Bristol-Myers Squibb PRI, PO Box 4000, Princeton, NJ 08543, USA

A novel and efficient solid-phase synthetic strategy for constructing 'diverse' heterocycles from *ortho*-fluoronitrobenzoic acid has been developed.



Z = CH₂, C=O, C-CH₃
n = 0, 1

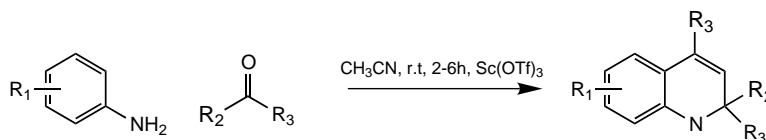
Novel facile synthesis of 2,2,4 substituted 1,2-dihydroquinolines via a modified Skraup reaction

Tetrahedron Letters 43 (2002) 3907

Maria-Elena Theoclitou* and Leslie A. Robinson

Bristol-Myers Squibb, Pharma Research Laboratories, 4570 Executive Drive, San Diego, CA 92121, USA

A variety of 2,2,4 substituted 1,2-dihydroquinolines were synthesized from substituted anilines or aminoheterocycles and the corresponding ketones in good yield via the use of lanthanide catalysts and microwave technology. This method can be readily applied to the general synthesis of combinatorial libraries of dihydroquinolines.



Microwave-assisted Niementowski reaction. Back to the roots

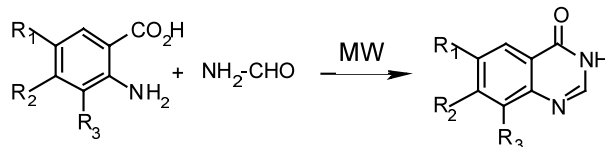
Tetrahedron Letters 43 (2002) 3911

François-René Alexandre,^{a,b} Amaya Berecibar^a and Thierry Besson^{b,*}

^aPFIZER Global Research & Development, Fresnes Laboratories, 3-9 rue de la Loge, BP100, F-94265 Fresnes cedex, France

^bLaboratoire de Génie Protéique et Cellulaire, EA3169, Groupe de Chimie Organique, UFR Sciences Fondamentales et Sciences pour l'Ingénieur, Bâtiment Marie Curie, Université de la Rochelle, F-17042 La Rochelle cedex 1, France

Niementowski synthesis of the 3*H*-quinazolin-4-one core was reinvestigated using microwave irradiation.

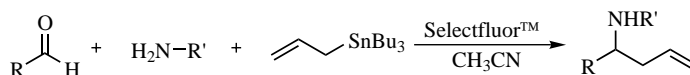


Selectfluor-mediated allylstannation of aldehydes and imines

Tetrahedron Letters 43 (2002) 3915

Junjie Liu and Chi-Huey Wong*

Department of Chemistry and the Skaggs Institute for Chemical Biology, The Scripps Research Institute, 10550 North Torrey Pines Road, La Jolla, CA 92037, USA



Memory of chirality effects in aldol cyclisations of 1-(3-oxobutryl) derivatives of L-4-oxaproline and L-proline isopropyl esters

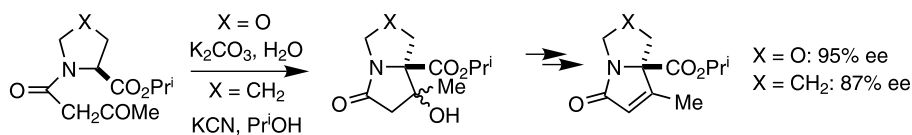
Tetrahedron Letters 43 (2002) 3919

Andrew G. Brewster,^a Jay Jayatissa,^b Mark B. Mitchell,^c Anthony Schofield^b and Richard J. Stoodley^{b,*}

^aAstra Zeneca Pharmaceuticals, Mereside, Alderley Park, Macclesfield, Cheshire SK10 4TG, UK

^bDepartment of Chemistry, UMIST, PO Box 88, Manchester M60 1QD, UK

^cRoche Discovery Welwyn, Broadwater Road, Welwyn Garden City, Hertfordshire AL7 3AY, UK

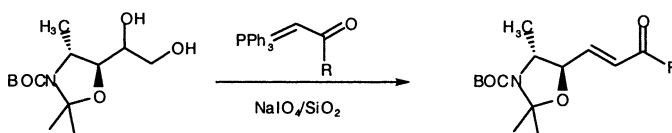


A general procedure for a one-pot oxidative cleavage/Wittig reaction of glycols

Tetrahedron Letters 43 (2002) 3923

Norma K. Dunlap,* Wosenu Mergo, James M. Jones and Jesse D. Carrick

Department of Chemistry, Middle Tennessee State University, Murfreesboro, TN 37132, USA



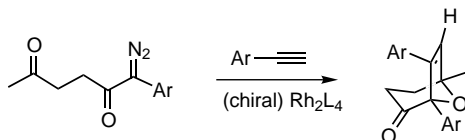
[3+2] Cycloaddition reactions of arylacetylenes with carbonyl ylides derived from 1-aryl-1-diazohexane-2,5-diones

Tetrahedron Letters 43 (2002) 3927

David M. Hodgson,^{a,*} Rebecca Glen^a and Alison J. Redgrave^b

^aDyson Perrins Laboratory, Department of Chemistry, University of Oxford, South Parks Road, Oxford OX1 3QY, UK

^bGlaxoSmithKline Medicines Research Centre, Gunnels Wood Road, Stevenage SG1 2NY, UK

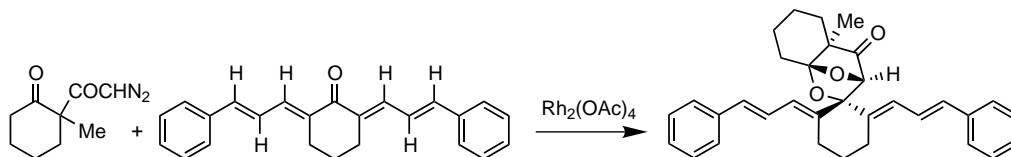


Anomalous behaviour of Rh(II)-generated carbonyl ylides: entry into functionalized spiro dioxo-bridged polycyclic frameworks

Tetrahedron Letters 43 (2002) 3931

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A convenient synthesis of chiral dioxocyclens and application as chiral solvating agents

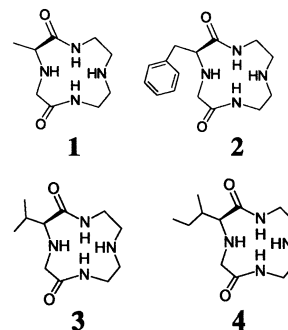
Tetrahedron Letters 43 (2002) 3935

Quan Yuan,^a Enqin Fu,^{a,*} Xiaojun Wu,^a Maohai Fang,^a Peng Xue,^a Chengtai Wu^a and Jiahua Chen^b

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Chiral dioxocyclens **1–4** were synthesized, and first introduced into molecular recognition research as chiral solvating agents in NMR. It is revealed that this type of dioxocyclen may be promising hosts for chiral discrimination.



Chiral cyclopropanes: asymmetric synthesis of constanolactones A and B

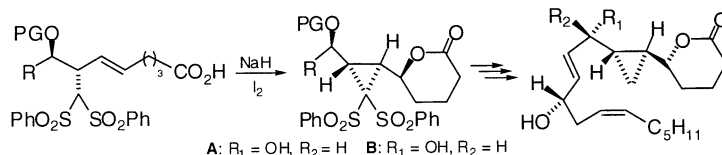
Tetrahedron Letters 43 (2002) 3939

Jurong Yu,^a Jing-Yu Lai,^a Jianhua Ye,^a Narayanan Balu,^a L. Manmohan Reddy,^a Wenhui Duan,^a Elaine R. Fogel,^a Jorge H. Capdevila^b and J. R. Falck^{a,*}

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The title marine eicosanoids were prepared using a novel bis-annulation to create the characteristic cyclopropane- δ -lactone motif.

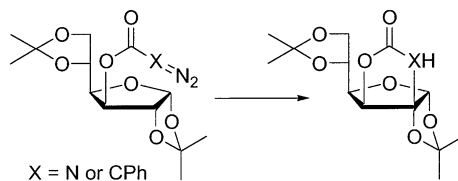


Intramolecular carbene and nitrene insertions at C-2 of diacetone-D-glucose

Tetrahedron Letters 43 (2002) 3961

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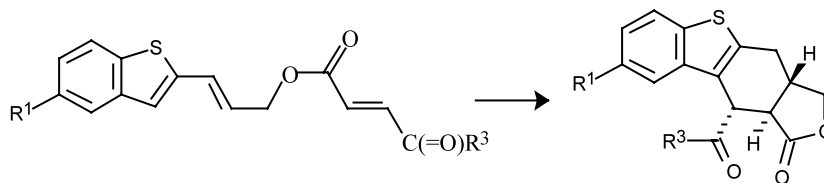
An intramolecular Diels–Alder route to novel tetracyclic benzo[*b*]thiophene derivatives

Tetrahedron Letters 43 (2002) 3963

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Synthesis of new highly conjugated bis-(4*H*-pyrans) involving electron rich polyene linkage, by Pd⁰ catalytic coupling of γ -methylene-pyran Fischer-type carbene complexes

Tetrahedron Letters 43 (2002) 3967

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