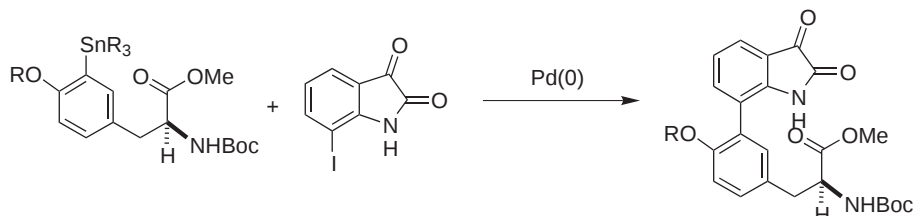
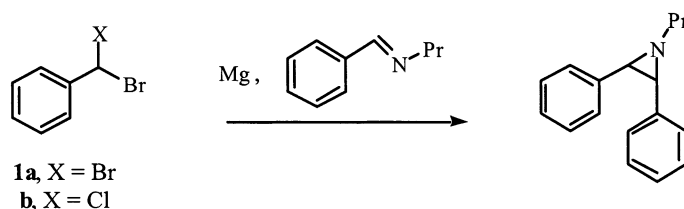
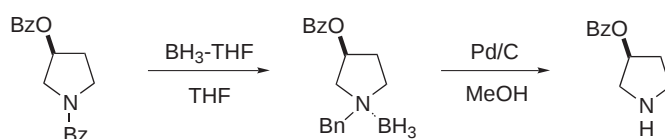
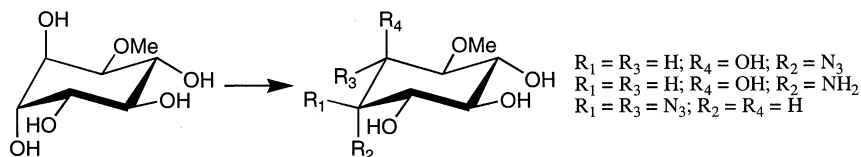


Entry into the bi-aryl moiety of the TMC-95 proteasome inhibitors via the Stille protocol*Tetrahedron Letters 42 (2001) 2755*

Brian K. Albrecht and Robert M. Williams*

Department of Chemistry, Colorado State University, Fort Collins, CO 80523, USA**Dual reaction pathways in the magnesium-mediated synthesis of aziridines from benzal halides and imines***Tetrahedron Letters 42 (2001) 2759*

Mark R. Biscoe and Albert J. Fry*

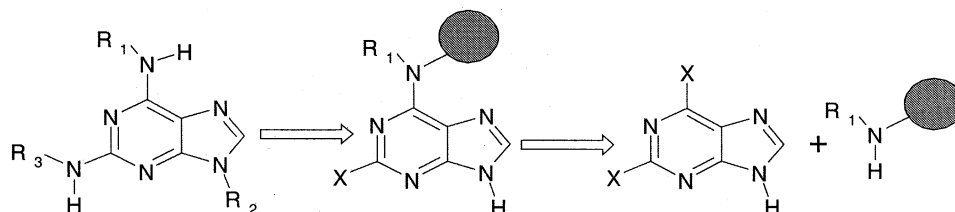
*Chemistry Department, Wesleyan University, Middletown, CT 06459, USA***1a** and **1b** each afford aziridine but by different reaction pathways.**The use of borane–amine adducts as versatile palladium-catalyzed hydrogen-transfer reagents in methanol***Tetrahedron Letters 42 (2001) 2763*Michel Couturier,* Brian M. Andresen, John L. Tucker, Pascal Dubé, Steven J. Brenek and Joanna T. Negri
Chemical Research and Development, Pfizer Global Research and Development, Eastern Point Road, PO Box 8013, Groton, CT 06340-8013, USA**Synthesis and theoretical study of azido and amino inositol derivatives from L-quebrachitol***Tetrahedron Letters 42 (2001) 2767*Mauro V. De Almeida,^a Renata M. Figueiredo,^a Hélio F. Dos Santos,^a Adilson D. Da Silva^a and Wagner B. De Almeida^{b,*}^a*Departamento de Química, ICE, Universidade Federal de Juiz de Fora, Juiz de Fora, MG, Brazil*^b*Laboratório de Química Computacional e Modelagem Molecular, Departamento de Química, ICEx, Universidade Federal de Minas Gerais, Belo Horizonte, MG 31270-901, Brazil*

Novel solid-phase preparation of 2,6,9-trisubstituted purines for combinatorial library generation

Tetrahedron Letters 42 (2001) 2771

Peter H. Dorff and Ravi S. Garigipati*

Exploratory Medicinal Sciences, Pfizer Central Research, Eastern Point Road, Groton, CT 06340, USA



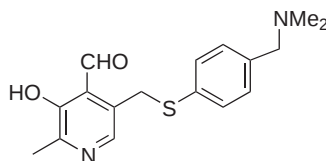
Selective racemization in preference to transamination catalyzed by pyridoxal enzyme analogs

Tetrahedron Letters 42 (2001) 2775

Lei Liu and Ronald Breslow*

Department of Chemistry, Columbia University, New York, NY 10027, USA

The racemase activity of pyridoxal enzyme models is selectively increased in preference to transaminase activity by the attachment of rigid basic groups.



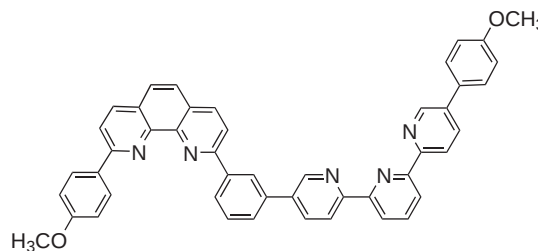
Synthesis of multifunctional ligands: a 2,9-diaryl-1,10-phenanthroline/2,2':6',2''-terpyridine conjugate

Tetrahedron Letters 42 (2001) 2779

Nicolas Belfrekh, Christiane Dietrich-Buchecker* and Jean-Pierre Sauvage

Laboratoire de Chimie Organo-Minérale, UMR 7513 du CNRS, Université Louis Pasteur, Faculté de Chimie, 4, rue Blaise Pascal, 67070 Strasbourg Cedex, France

A ligand including a 1,10-phenanthroline and a 2,2':6',2''-terpyridine has been synthesised in seven steps via Stille and Suzuki couplings.

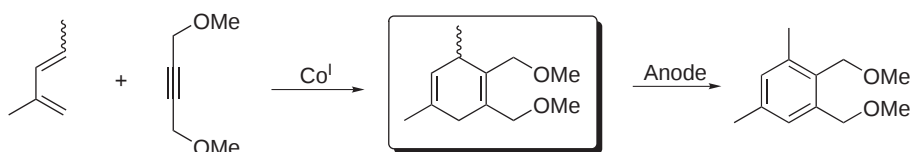


An efficient cobalt catalyst for the neutral Diels–Alder reaction of acyclic 1,3-dienes with internal alkynes

Tetrahedron Letters 42 (2001) 2783

Gerhard Hilt* and Tobias J. Korn

Department Chemie, Ludwig-Maximilians Universität München, Butenandtstraße 5-13, 81377 Munich, Germany



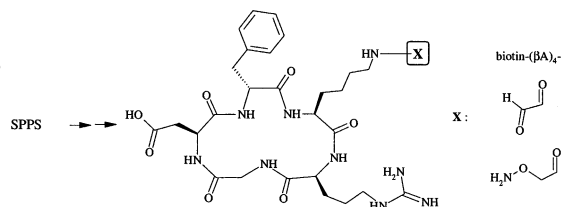
A convenient access to $\alpha_v\beta_3/\alpha_v\beta_5$ integrin ligand conjugates: regioselective solid-phase functionalisation of an RGD based peptide

Tetrahedron Letters 42 (2001) 2787

Didier Boturyn and Pascal Dumy*

LEDSS, Ingénierie Moléculaire et Chimie des Composés Bioorganiques, UMR CNRS 5616, Université Joseph Fourier, BP 53, 38041 Grenoble Cedex 9, France

A methodology for the conjugation of cyclo(-RGDfK-) through the regioselective derivatisation of lysine side chains, either in solution or directly on the solid support, is described. This provides a rapid and flexible chemical entry to conjugated integrin ligands bearing reporter groups for biological detection or reactive chemical functions for the preparation of new vector systems.

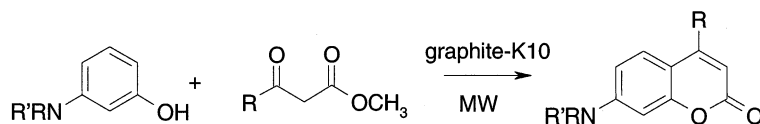


Microwave acceleration of the Pechmann reaction on graphite/montmorillonite K10: application to the preparation of 4-substituted 7-aminocoumarins

Tetrahedron Letters 42 (2001) 2791

Stéphane Frère, Valérie Thiéry and Thierry Besson*

Laboratoire de Génie Protéique et Cellulaire, UPRES EA3169, Groupe de Chimie Organique, UFR Sciences Fondamentales et Sciences pour l'Ingénieur, Université de la Rochelle, Avenue Michel Crépeau, F-17042 La Rochelle Cedex 1, France



A di-*O*-dihydrogeranylgeranyl glycerol from *Thermococcus* S 557, a novel ether lipid, and likely intermediate in the biosynthesis of diethers in Archaea

Tetrahedron Letters 42 (2001) 2795

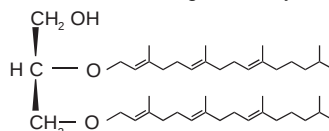
Isabelle Gonthier,^a Marie-Noëlle Rager,^b Pierre Metzger,^{a,*} Jean Guezennec^c and Claude Largeau^a

^aCNRS UMR 7573, Ecole Nationale Supérieure de Chimie de Paris, 11 Rue P. et M. Curie, 75231 Paris cedex 05, France

^bService RMN, CNRS UMR 7576, Ecole Nationale Supérieure de Chimie de Paris, 11 Rue P. et M. Curie, 75231 Paris cedex 05, France

^cIFREMER, 29280 Plouzané, France

A new hexa-unsaturated diether has been isolated from *Thermococcus* sp. in a dry wt yield of 0.015%.

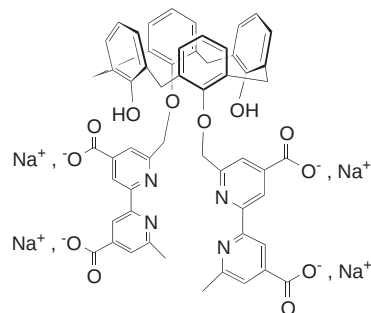


A new water-soluble ligand based on a calix[4]arene substituted by 2,2'-bipyridine chelating units

Tetrahedron Letters 42 (2001) 2799

Nicolas Psychogios and Jean-Bernard Regnouf-de-Vains*

GEVSM, UMR 7565 CNRS- UHP, Faculté de Pharmacie, 5, rue Albert Lebrun, F-54001 Nancy, France



Synthesis and structure determination of *iso*-cladospolide B

Tetrahedron Letters 42 (2001) 2801

Xavier Franck, Maria E. Vaz Araujo, Jean-Christophe Jullian, Reynald Hocquemiller and Bruno Figadère*

Laboratoire de Pharmacognosie, associé au CNRS (BIOCIS), Université Paris-Sud, Faculté de Pharmacie, rue Jean-Baptiste Clément, 92296 Châtenay-Malabry, France

The title compound was synthesized in seven steps from commercially available starting materials, through the use of asymmetric vinylogous aldol reaction.



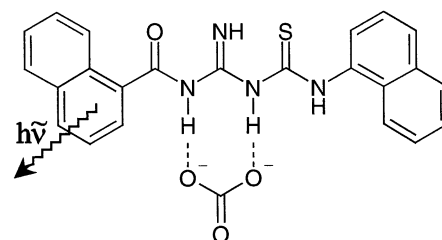
Fluorescent anion receptors with iminoylthiourea binding sites—selective hydrogen bond mediated recognition of CO_3^{2-} , HCO_3^- and HPO_4^{2-}

Tetrahedron Letters 42 (2001) 2805

Gunther Hennrich,^{a,*} Helmut Sonnenschein^b and Ute Resch-Genger^{a,*}

^aFederal Institute for Materials Research and Testing (BAM), Richard-Willstätter-Straße 11, 12489 Berlin, Germany

^bInstitute for Nonclassical Chemistry, Permoserstraße 15, 04303 Leipzig, Germany

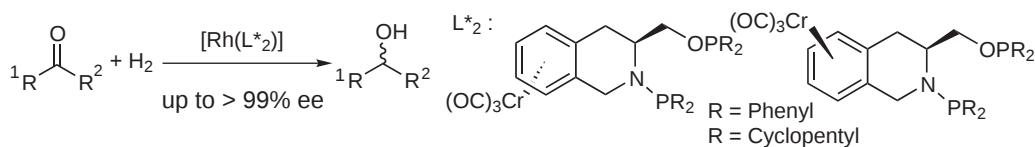


Chiral tricarbonyl(η^6 -arene)chromium complexed diphosphanes. Highly enantioselective rhodium-mediated hydrogenation of ketones

Tetrahedron Letters 42 (2001) 2809

Corinne Pasquier, Lydie Péliniski, Jacques Brocard, André Mortreux and Francine Agbossou-Niedercorn*

Laboratoire de Catalyse de Lille, UPRESA 8010, ENSCL, BP 108, 59652 Villeneuve d'Ascq Cedex, France



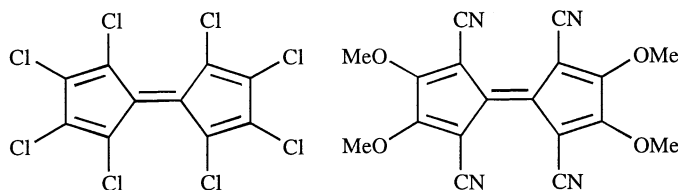
Fulvalene derivatives: strong proaromatic electron acceptors

Tetrahedron Letters 42 (2001) 2813

Emad Aqad,^a Philippe Leriche,^a Gilles Mabon,^a Alain Gorgues^{a,*} and Vladimir Khodorkovsky^{b,*}

^aLaboratoire IMMO, UMR CNRS et Faculté des Sciences, Université d'Angers, 2 Bd Lavoisier, 49045 Angers cedex, France

^bDepartment of Chemistry, Ben-Gurion University of the Negev, Beer-Sheva 84105, Israel

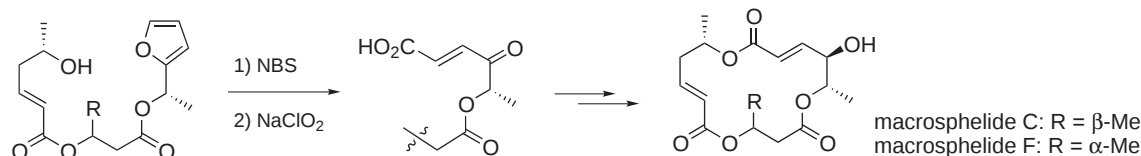


First total synthesis of macrospinelides C and F

Tetrahedron Letters 42 (2001) 2817

Yuichi Kobayashi* and Hukum P. Acharya

Department of Biomolecular Engineering, Tokyo Institute of Technology, 4259 Nagatsuta-cho, Midori-ku, Yokohama 226-8501, Japan

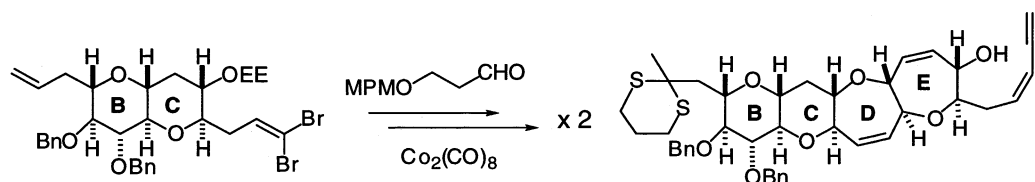


Synthesis of the BCDE rings of ciguatoxin 1B via an acetylene biscobalthexacarbonyl–vinylsilane strategy

Tetrahedron Letters 42 (2001) 2821

Kazunobu Kira and Minoru Isobe*

Laboratory of Organic Chemistry, Graduate School of Bioagricultural Sciences, Nagoya University, Chikusa, Nagoya 464-8601, Japan



A novel 3,4-*seco*-migrated-lupane glycoside with a seven-membered B-ring from *Acanthopanax divaricatus* var. *sachunensis*

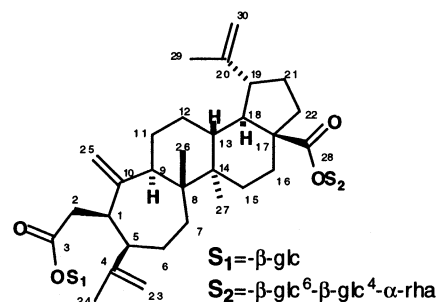
Tetrahedron Letters 42 (2001) 2825

Sang-Yong Park,^a Chang-Soo Yook^b and Toshihiro Nohara^{a,*}

^aFaculty of Pharmaceutical Sciences, Kumamoto University, 5-1 Oe-honmachi, Kumamoto 862-0973, Japan

^bCollege of Pharmacy, Kyung-Hee University, 1 Hoegi-dong, Seoul 132-702, South Korea

Sachunoside, a 3,4-*seco*-migrated-lupane glycoside involving a seven-membered B-ring was isolated together with seven related *seco*-lupane triterpenoids from *Acanthopanax divaricatus* Seemann var. *Sachunensis* Yook and their structures were established by NMR experiments and FABMS.

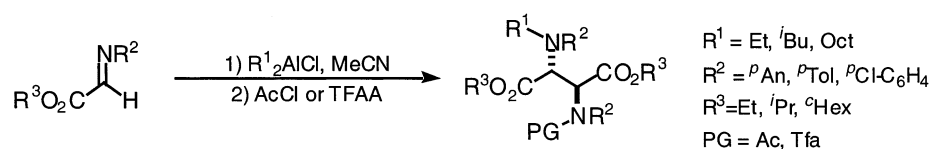


N-Alkylation-coupling reaction of imines promoted by alkylaluminum reagents, leading to a facile synthesis of 1,2-diamines

Tetrahedron Letters 42 (2001) 2829

Makoto Shimizu* and Yasuki Niwa

Department of Chemistry for Materials, Mie University, Tsu, Mie 514-8507, Japan

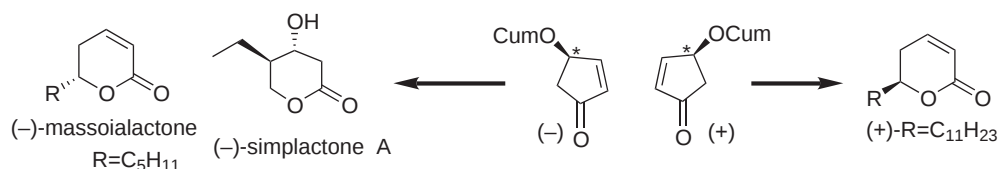


A new chiral route to 5- and 6-substituted hydropyran-2-ones utilizing enantiopure 4-cumyloxy-2-cyclopenten-1-one

Tetrahedron Letters 42 (2001) 2833

Masayuki Sato, Hiromi Nakashima, Keisuke Hanada, Masato Hayashi, Masatoshi Honzumi, Takahiko Taniguchi and Kunio Ogasawara*

Pharmaceutical Institute, Tohoku University, Aobayama, Sendai 980-8578, Japan



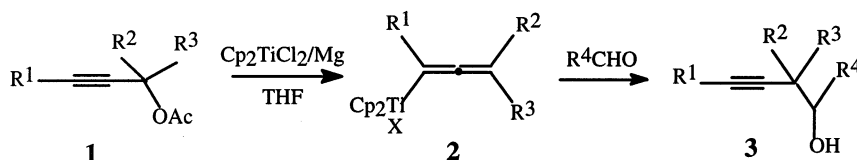
Nucleophilic reactions of propargyl acetates mediated by titanocene dichloride and magnesium

Tetrahedron Letters 42 (2001) 2839

Fanglong Yang, Gang Zhao* and Yu Ding*

Shanghai Institute of Organic Chemistry, Chinese Academy of Science, 345 Lingling Lu, Shanghai 200032, PR China

The allenyltitanium **2** can also react with other electrophiles such as ketones, allyl bromide and acetonitrile in good yield.



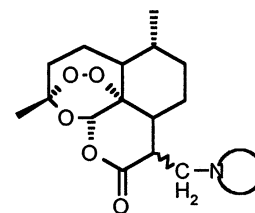
Michael addition of artemisitene

Tetrahedron Letters 42 (2001) 2843

Xi-Bin Liao, Ji-Ye Han and Ying Li*

Shanghai Institute of Materia Medica, Shanghai Institutes for Biological Sciences, Chinese Academy of Sciences, 294 Taiyuan Road, Shanghai 200031, China

Michael addition of artemisitene with triazole, benzotriazole or benzimidazole afforded six compounds which showed high antimalarial activity against *Plasmodium berghei* in mice.

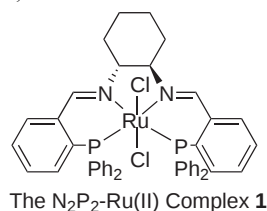
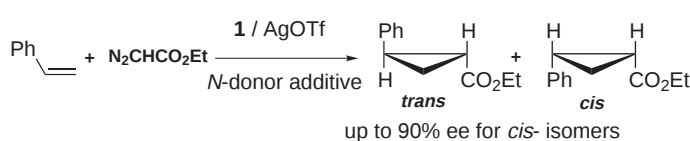


Asymmetric cyclopropanation of styrene with ethyl diazoacetate using a N₂P₂-ligand ruthenium(II) catalyst: axial ligand controlled enantioselectivity

Tetrahedron Letters 42 (2001) 2847

Zhuo Zheng,* Xiaoquan Yao, Chen Li, Huilin Chen and Xinquan Hu

Dalian Institute of Chemical Physics, Chinese Academy of Sciences, Dalian 116023, PR China



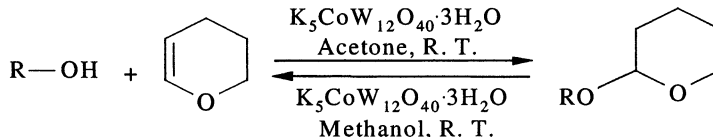
Potassium dodecatangestocobaltate trihydrate ($K_5CoW_{12}O_{40} \cdot 3H_2O$): a mild and efficient catalyst for the tetrahydropyranylation of alcohols and their detetrahydropyranylation

Tetrahedron Letters 42 (2001) 2851

Mohammad H. Habibi,* Shahram Tangestaninejad, Iraj Mohammadpoor-Baltork, Valiollah Mirkhani and Bahram Yadollahi

Chemistry Department, Isfahan University, Isfahan 81745-117, Iran

$K_5CoW_{12}O_{40} \cdot 3H_2O$ is an excellent and effective catalyst for tetrahydropyranylation and deprotection of tetrahydropyranyl ethers to their parent alcohols.

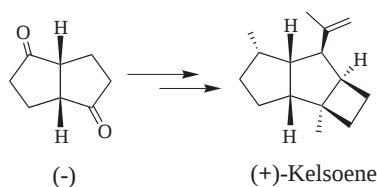


Enantioselective total syntheses of the novel tricyclic sesquiterpene hydrocarbons (+)- and (-)-kelsoene. Absolute configuration of the natural product

Tetrahedron Letters 42 (2001) 2855

Goverdhan Mehta* and K. Srinivas

Department of Organic Chemistry, Indian Institute of Science, Bangalore 560 012, India

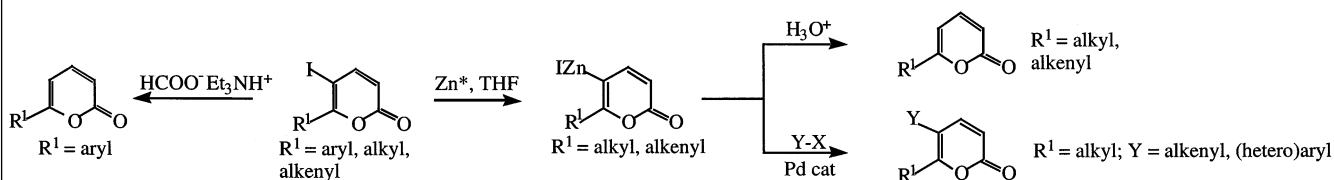


A novel route to 6-substituted and 5,6-disubstituted 2-pyrones

Tetrahedron Letters 42 (2001) 2859

Fabio Bellina, Matteo Biagetti, Adriano Carpita and Renzo Rossi*

Dipartimento di Chimica e Chimica Industriale, University of Pisa, via Risorgimento 35, I-56126 Pisa, Italy



Mechanistic and stereochemical aspects of the Lewis acid mediated cleavage of α -aminoacetals

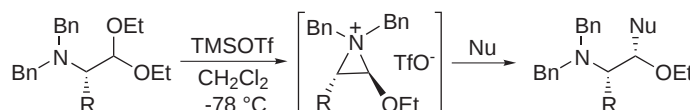
Tetrahedron Letters 42 (2001) 2865

Mark A. Graham,^a Alan H. Wadsworth,^b Mark Thornton-Pett,^a Benedetta Carrozzini,^c Giovanni L. Cascarano^c and Christopher M. Rayner^{a,*}

^a*School of Chemistry, University of Leeds, Leeds LS2 9JT, UK*

^b*GlaxoWellcome Medicines Research Centre, Gunnels Wood Road, Stevenage, Herts. SG1 2NY, UK*

^c*IRMEC, Dipartimento Geomineralogico, Campus Universitario, Via E. Orabona, 4 I-70125 Bari, Italy*

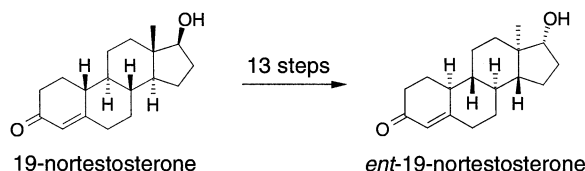


Synthesis of *ent*-19-nortestosterone from its naturally occurring antipode

Tetrahedron Letters 42 (2001) 2869

N. Miranda Teerhuis, Inès A. M. Huisman and Marinus B. Groen*

Research & Development, N.V. Organon, PO Box 20, 5340 BH Oss, The Netherlands

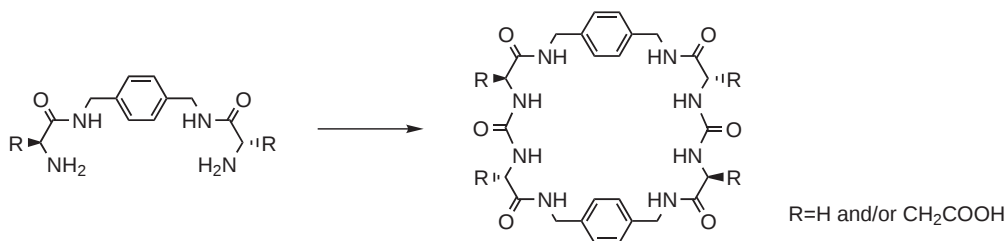


An efficient and convergent route towards water-soluble, chiral and amphiphilic macrocycles

Tetrahedron Letters 42 (2001) 2873

Tapes Bhattacharyya and Ulf J. Nilsson*

Department of Organic Chemistry 2, Lund University, POB 124, SE-221 00 Lund, Sweden



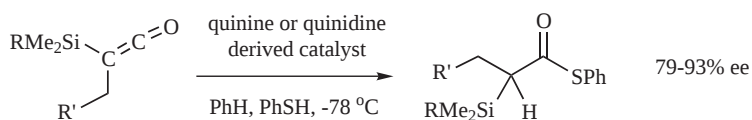
The highly enantioselective transformation of silylketenes into α -silylthioesters catalysed by cinchona alkaloids

Tetrahedron Letters 42 (2001) 2877

Alexander J. Blake,^a Christopher L. Friend,^a Robert J. Outram,^a Nigel S. Simpkins^{a,*} and Andrew J. Whitehead^b

^aSchool of Chemistry, University of Nottingham, University Park, Nottingham NG7 2RD, UK

^bGlaxoWellcome, Gunnels Wood Rd, Stevenage, Hertfordshire SG1 2NY, UK

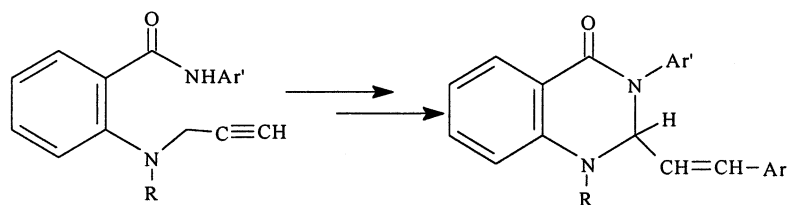


Heteroannulation through copper catalysis: a novel and highly regio- and stereoselective cyclisation of alkynes leading to (*E*)-2-(2-arylvinyl)quinazolinones

Tetrahedron Letters 42 (2001) 2883

Nitya G. Kundu* and Gopeswar Chaudhuri

Department of Organic Chemistry, Indian Association for the Cultivation of Science, Jadavpur, Calcutta 700 032, India



Novel acid-free cleavage of *N*-(2-hydroxyarylidene) protected amines

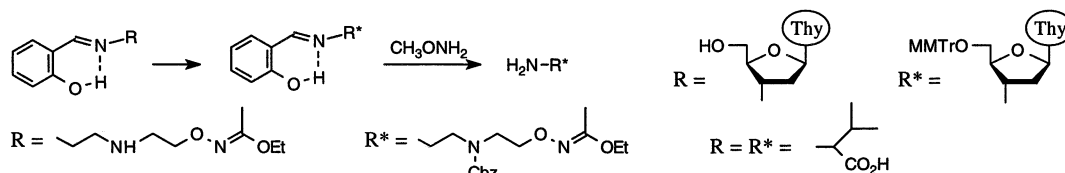
Tetrahedron Letters 42 (2001) 2887

Alex R. Khomutov,^a Alexander S. Shvetsov,^b Jouko J. Vepsäläinen^{b,*} and Anatoly M. Kritzyn^c

^a*Bakh Institute of Biochemistry, Russian Academy of Sciences, Leninsky Prospekt, 33, Moscow 117071, Russia*

^b*Department of Chemistry, University of Kuopio, PO Box 1627, FIN-70211 Kuopio, Finland*

^c*Engelhardt Institute of Molecular Biology, Russian Academy of Sciences, Vavilov St., 32, Moscow 117984, Russia*



The first synthesis and biological testing of the enantiomer of 1 α ,25-dihydroxyvitamin D₃

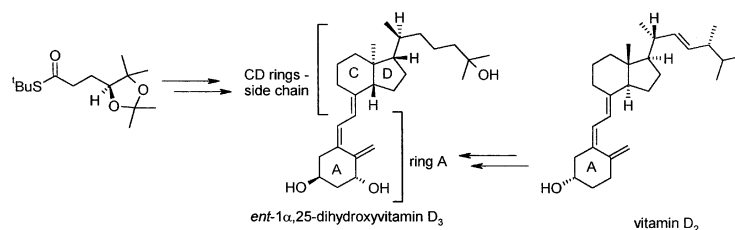
Tetrahedron Letters 42 (2001) 2891

Barbara Achmatowicz,^a Evgueni Gorobets,^a Stanislaw Marczak,^a Agnieszka Przezdziecka,^a Andreas Steinmeyer,^b Jerzy Wicha^{a,*} and Ulrich Zügel^b

^a*Institute of Organic Chemistry, Polish Academy of Sciences,*

PO Box 58, 01-224 Warsaw 42, Poland

^b*Schering AG, Preclinical Drug Research, D-13342 Berlin, Germany*

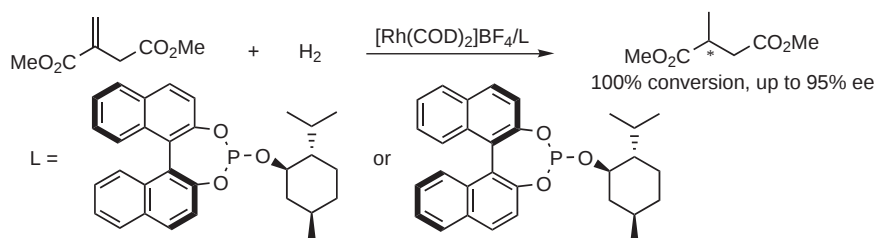


Enantioselective hydrogenation with inexpensive, easily available monodentate phosphite ligands

Tetrahedron Letters 42 (2001) 2897

Weiping Chen and Jianliang Xiao^{*}

Leverhulme Centre for Innovative Catalysis, Department of Chemistry, University of Liverpool, Liverpool L69 7ZD, UK



The synthesis of functionalised β - and γ -lactams by cyclisation of enamides using copper(I) or ruthenium(II)

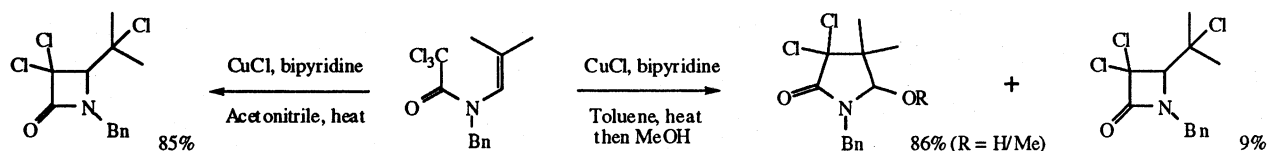
Tetrahedron Letters 42 (2001) 2901

Justin S. Bryans,^a Nicola E. A. Chessum,^b Andrew F. Parsons^{b,*} and Franco Ghelfi^c

^a*Pfizer Global Research and Development, Forvie Site, Robinson Way, Cambridge CB2 2QB, UK*

^b*Department of Chemistry, University of York, Heslington, York YO10 5DD, UK*

^c*Dipartimento di Chimica, Università degli Studi di Modena e Reggio Emilia, Via Campi 183, I-41100 Modena, Italy*



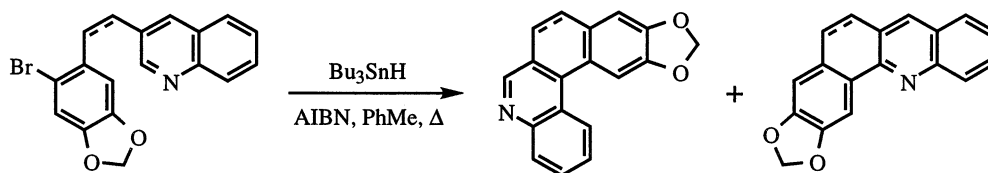
Intramolecular radical additions to quinolines

Tetrahedron Letters 42 (2001) 2907

David C. Harrowven,^{a,*} Benjamin J. Sutton^a and Steven Coulton^b

^aDepartment of Chemistry, The University, Southampton SO17 1BJ, UK

^bGlaxoSmithKline, New Frontiers Science Park (North), Third Avenue, Harlow, Essex CM19 5AW, UK



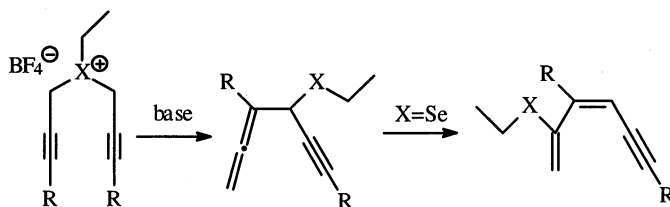
Base catalyzed [2,3]-sigmatropic rearrangements of propargylic sulfonium and selenonium salts

Tetrahedron Letters 42 (2001) 2911

Samuel Braverman,^{a,*} Yossi Zafrani^a and Shai Rahimipour^b

^aDepartment of Chemistry, Bar-Ilan University, Ramat-Gan 52900, Israel

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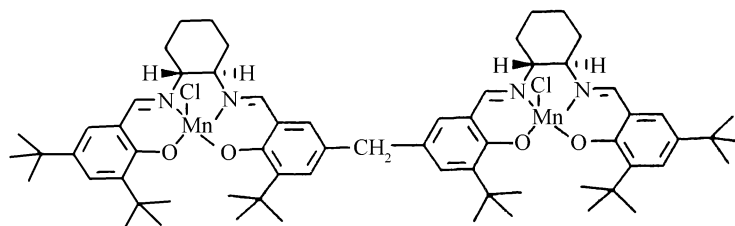
Dimeric chiral Mn(III) Schiff base complex-catalysed enantioselective epoxidation of non-functionalised alkenes

Tetrahedron Letters 42 (2001) 2915

Rukhsana I. Kureshy,^{*} Noor-ul H. Khan, Sayed H. R. Abdi, Sunil T. Patel and Raksh V. Jasra

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Enantioselective epoxidation of non-functionalised alkenes catalysed by a dimeric Mn(III) complex has been described and the system works well. Epoxide yield: 97–100%, ee's 35 → 99%, epoxide configuration is the same as that of Jacobsen's monomer catalysts.



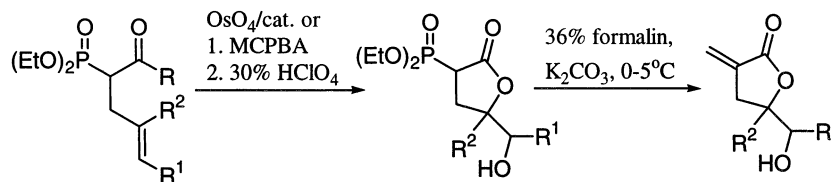
Stereocontrolled synthesis of 5-(1'-hydroxyalkyl)-3-methylidene-tetrahydro-2-furanones

Tetrahedron Letters 42 (2001) 2919

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Synthesis of the title compounds was accomplished using diastereo- and enantioselective dihydroxylation procedures followed by Horner–Wadsworth–Emmons olefination.



Asymmetric synthesis of β -hydroxyesters by aldol type condensation of enantiomerically pure *t*-butyl *p*-tolyl sulfinyl acetate: unexpected substituent effect on the absolute configuration of the product

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