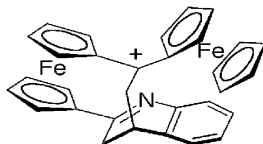


A new insight into the problem of stabilisation of α -carbocationic centres in the ferrocene series

Tetrahedron Letters 43 (2002) 4717

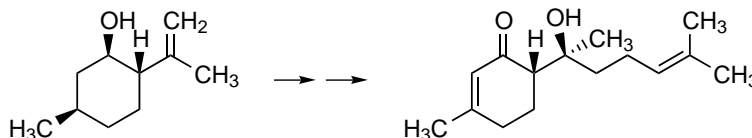
Alberto Tárraga,^{a,*} Pedro Molina,^{a,*} Juan Luis López,^a Arturo Espinosa^a and David J. Evans^b^aDepartamento de Química Orgánica, Facultad de Química, Universidad de Murcia, Campus de Espinardo, E-30100 Murcia, Spain^bDepartment of Biological Chemistry, John Innes Centre, Norwich Research Park, Colney, Norwich NR4 7UH, UK**Synthesis of (+)-hernandulcin and (+)-epihernandulcin**

Tetrahedron Letters 43 (2002) 4721

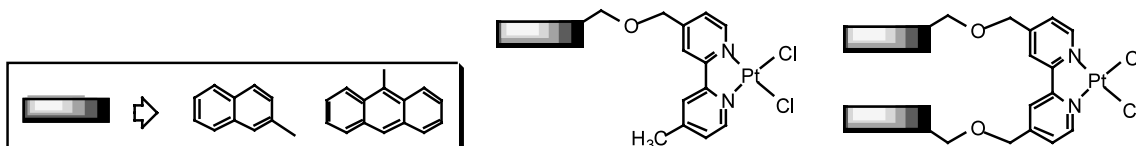
Jung Hun Kim, Hyun Jin Lim and Seung Hoon Cheon*

College of Pharmacy & Research Institute of Drug Development, Chonnam National University, 300 Yongbong-Dong, Buk-Ku, Kwangju 500-757, South Korea

(+)–Hernandulcin was synthesized from (–)-isopulegol with 15% overall yield.

**Anthracene and naphthalene (2,2'-bipyridine)platinum(II) conjugates: synthesis and DNA photocleavage**

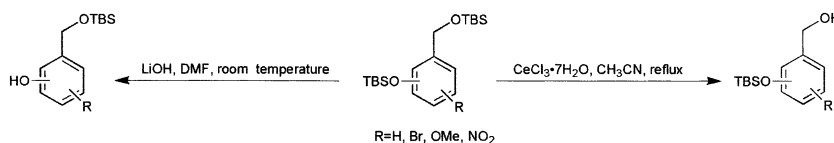
Tetrahedron Letters 43 (2002) 4723

Lourdes Gude,^a María-José Fernández,^a Kathryn B. Grant^{b,*} and Antonio Lorente^{a,*}^aDepartamento de Química Orgánica, Universidad de Alcalá, 28871 Alcalá de Henares, Madrid, Spain^bDepartment of Chemistry, Center for Biotechnology and Drug Design, Georgia State University, University Plaza, Atlanta, GA 30303, USA**Selective deprotection of either alkyl or aryl silyl ethers from aryl, alkyl bis-silyl ethers**

Tetrahedron Letters 43 (2002) 4729

Sudha V. Ankala and Gabriel Fenteany*

Department of Chemistry, University of Illinois at Chicago, 845 West Taylor Street, Chicago, IL 60607-7061, USA



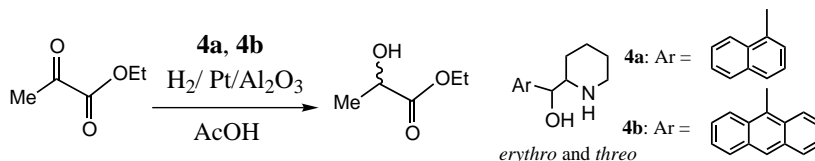
New chiral modifiers in enantioselective heterogeneous catalytic hydrogenation of ethyl pyruvate over Pt/Al₂O₃: chiral amino alcohols derived from piperidine

Tetrahedron Letters 43 (2002) 4733

A. Solladié-Cavallo,^{a,*} C. Marsol^{a,b} and F. Garin^b

^aLaboratoire de Stéréochimie Organométallique, ECPM/Université Louis Pasteur, 25 rue Becquerel, 67087 Strasbourg, France

^bLMSPC, ECPM/Université Louis Pasteur, 25 rue Becquerel, 67087 Strasbourg, Cedex 02, France



Stereoselective aldol condensation of boron enolates to *trans* α,β-epoxy aldehydes

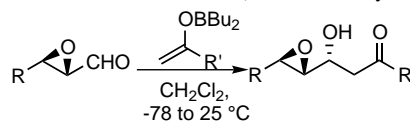
Tetrahedron Letters 43 (2002) 4737

Giuliana Righi,^{a,*} Francesca Spirito^a and Carlo Bonini^b

^aIstituto di Chimica Biomolecolare-Sezione di Roma, c/o Dipartimento di Chimica, Università 'La Sapienza', P. le A. Moro 5, 00185 Roma, Italy

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

A study on the addition of boron enolates of methyl ketones to *trans* α,β-epoxy aldehydes is reported. The reaction proceeds with an excellent *anti* stereoselectivity, consistent with the Felkin–Ahn model, toward the synthesis of hydroxylate compounds with defined stereochemistry.



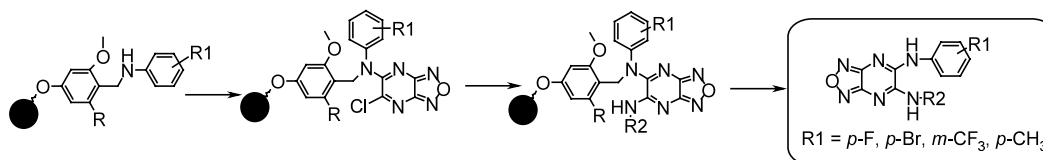
Solid-phase versus solution synthesis of asymmetrically disubstituted furazano[3,4-*b*]pyrazines

Tetrahedron Letters 43 (2002) 4741

E. Fernández,^a S. García-Ochoa,^a S. Huss,^a A. Mallo,^a J. M. Bueno,^{a,*} F. Micheli,^b A. Paio,^b E. Piga^b and P. Zarantonello^b

^aGlaxoSmithKline S.A. P.T.M., Severo Ochoa, 2 E-28760 Tres Cantos, Madrid, Spain

^bGlaxoSmithKline Medicine Research Centre, Via Alessandro Fleming, 4-37135 Verona, Italy



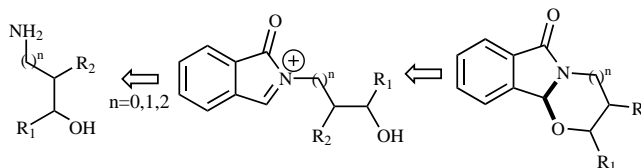
Acid-mediated intramolecular cationic cyclization using an oxygen atom as internal nucleophile: synthesis of substituted oxazolo-, oxazino- and oxazepinoisindolinones

Tetrahedron Letters 43 (2002) 4747

Jana Sikoraiová,^a Štefan Marchalín,^a Adam Dačh^{b,*} and Bernard Decroix^b

^aDepartment of Organic Chemistry, Slovak University of Technology, Radlinského 9, Sk-81237 Bratislava, Slovakia

^bLaboratoire de Chimie de l'Université du Havre, Faculté des Sciences & Techniques, URCOM, EA 3221, 25 Rue Philippe Lebon, B.P. 540, F-76058 Le Havre, Cedex, France



Various substituted bicyclic lactams **5–7**, **12–15** and **19** as oxazolo-, oxazino- and oxazepinoisindolinones were synthesized efficiently in an acidic medium from phthalic anhydride and amino-alcohols **1**, **8** and **17** in three sequential set.

Preparation of enantiopure sultams by intramolecular Diels–Alder reaction of furan-containing vinylsulfonamides

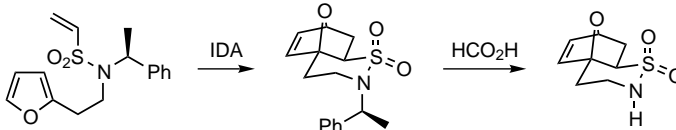
Tetrahedron Letters 43 (2002) 4753

Viktor O. Rogatchov,^a Heiko Bernsmann,^a Pia Schwab,^a Roland Fröhlich,^b Birgit Wibbeling^b and Peter Metz^{a,*}

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

^bOrganisch-Chemisches Institut, Universität Münster, Corrensstraße 40, D-48149 Münster, Germany

N-1-Phenylethyl substituted δ - and γ -sultams have been prepared by thermal and high pressure intramolecular [4+2] cycloaddition. Reductive debenzoylation of the δ -sultams is also reported.

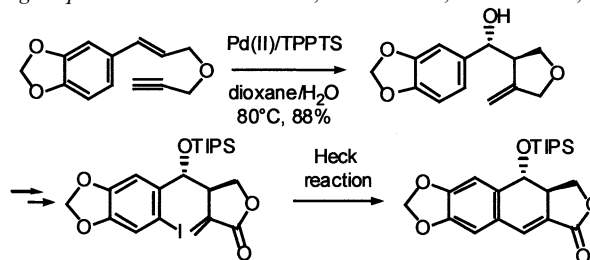


Pd-catalyzed route to (±)-podophyllotoxin skeleton. Synthesis of the aryltetralin derivative

Tetrahedron Letters 43 (2002) 4757

Lise Charruault, Véronique Michelet* and Jean-Pierre Genêt*

Laboratoire de Synthèse Sélective Organique et Produits Naturels, E.N.S.C.P., UMR 7573, 11 rue P. et M. Curie, F-75231 Paris, Cedex 05, France

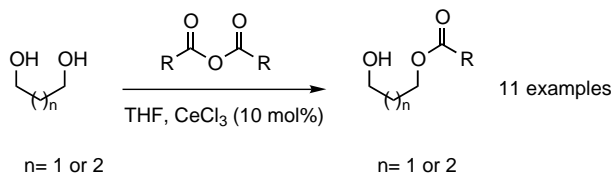


Selective mono-acylation of meso- and C₂-symmetric 1,3- and 1,4-diols

Tetrahedron Letters 43 (2002) 4761

Paul A. Clarke*

School of Chemistry, University of Nottingham, University Park, Nottingham NG7 2RD, UK



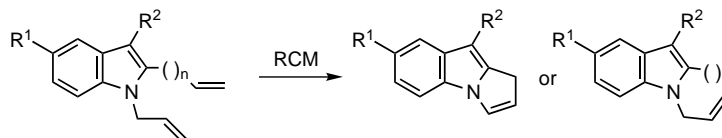
RCM in indoles. A new entry to the mitosene skeleton

Tetrahedron Letters 43 (2002) 4765

Patxi González-Pérez, Leticia Pérez-Serrano, Luis Casarrubios, Gema Domínguez and Javier Pérez-Castells*

Departamento de Química, Facultad de Ciencias Experimentales y de la Salud, Universidad San Pablo-CEU, Urb. Montepríncipe, Boadilla del Monte, 28668 Madrid, Spain

Functionalized indoles lead to the mitosene skeleton and other polycycloindoles via RCM reactions.

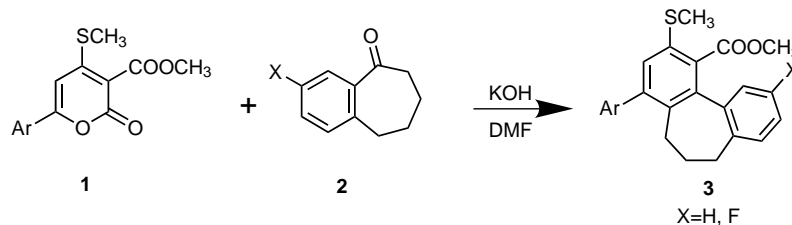


Carbanion induced synthesis of dibenzo[*a,c*]cycloheptenes through ring transformation reactions of 2*H*-pyran-2-one

Tetrahedron Letters 43 (2002) 4769

Vishnu Ji Ram* and Nidhi Agarwal

Medicinal Chemistry Division, Central Drug Research Institute, Lucknow 226001, India

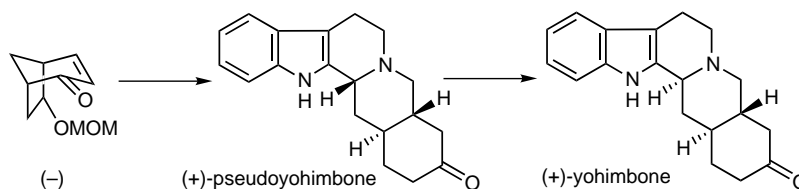


A concise enantiocontrolled route to yohimbones using a bicyclo[3.2.1]octane chiral building block

Tetrahedron Letters 43 (2002) 4773

Norio Miyazawa and Kunio Ogasawara*

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

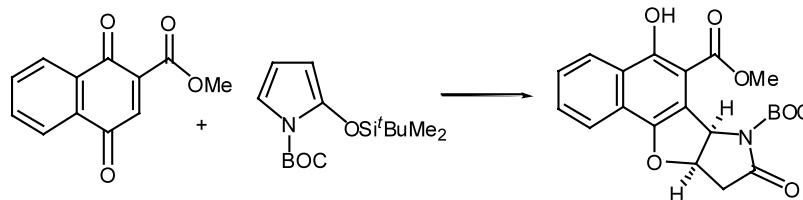


Uncatalyzed addition of *N*-(*tert*-butoxycarbonyl)-2-*tert*-butyldimethylsilyloxypyrrole to activated quinones

Tetrahedron Letters 43 (2002) 4777

Margaret A. Brimble,* Rosliana Halim and Maria Petersson

Department of Chemistry, University of Auckland, 23 Symonds St., Auckland, New Zealand

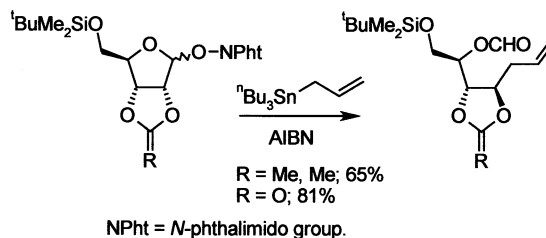


Sequential alkoxy radical fragmentation–intermolecular allylation in carbohydrate systems

Tetrahedron Letters 43 (2002) 4781

Angeles Martín, Inés Pérez-Martín and Ernesto Suárez*

Instituto de Productos Naturales y Agrobiología del CSIC, Carretera de La Esperanza 3, 38206 La Laguna, Tenerife, Spain



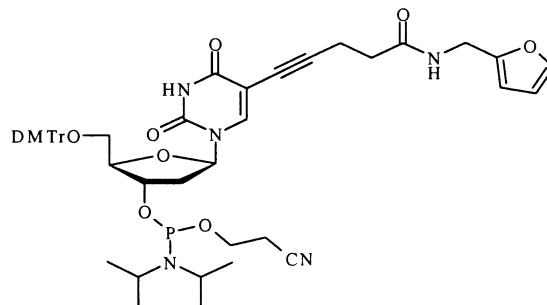
Internal labeling of oligonucleotide probes by Diels–Alder cycloaddition

Duncan Graham,* Antonio Grondin, Callum McHugh,
Ljiljana Fruk and W. Ewen Smith

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

Synthesis of a furan modified deoxyuridine phosphoramidite that was used to add fluorescent maleimides to the middle of an oligonucleotide is reported.

Tetrahedron Letters 43 (2002) 4785



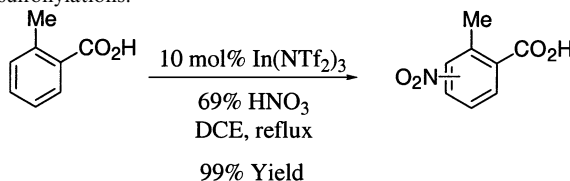
Counterion effects in indium-catalysed aromatic electrophilic substitution reactions

Christopher G. Frost,^{a,*} Joseph P. Hartley^a and David Griffin^b

^aDepartment of Chemistry, University of Bath, Claverton Down, Bath BA2 7AY, UK

^bSyngenta, Jealotti's Hill International Research Centre, Bracknell, Berkshire RG42 6ET, UK

Indium(III) trifluoromethanesulfonamide (In(NTf₂)₃) has been prepared in high yield and has been demonstrated to be an efficient, recoverable catalyst for aromatic nitrations, acetylations and sulfonylations.

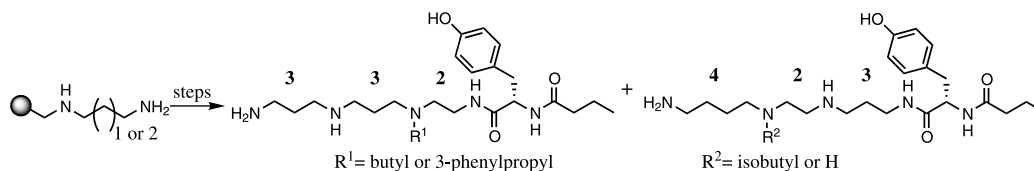


Tetrahedron Letters 43 (2002) 4789

Solid-phase synthesis of PhTX-3.2.4 and PhTX-2.3.3 derivatives

Daniel Jönsson*

Department of Neurochemistry & Neurotoxicology, Stockholm University, S-10691 Stockholm, Sweden

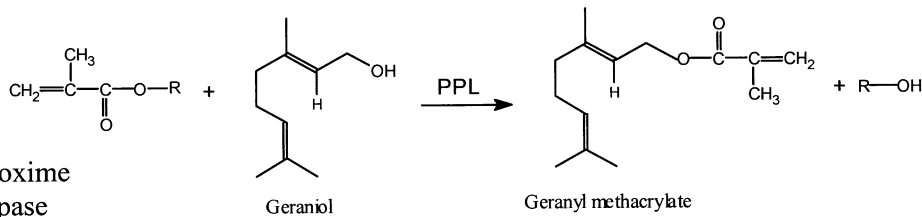


Tetrahedron Letters 43 (2002) 4793

Lipase-catalyzed synthesis of geranyl methacrylate by transesterification: study of reaction parameters

Vilas Athawale,* Narendra Manjrekar and Manoj Athawale

Department of Chemistry, University of Mumbai, Vidyanagari, Santacruz (E), Mumbai 400 098, India



R = 2,3-butanedione mono-oxime
PPL = Porcine pancreatic lipase

Tetrahedron Letters 43 (2002) 4797

Novel sesterterpenoid and norseseterterpenoid RCE-protease inhibitors isolated from the marine sponge *Hippospongia* sp.

Tetrahedron Letters 43 (2002) 4801

Kyle S. Craig,^a David E. Williams,^a Irwin Hollander,^b Eileen Frommer,^b Robert Mallon,^b Karen Collins,^b Donald Wojciechowicz,^b Akbar Tahir,^c Rob Van Soest^d and Raymond J. Andersen^{a,*}

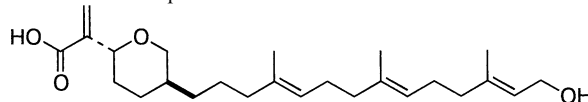
^aDepartments of Chemistry and Earth & Ocean Sciences, 2036 Main Hall, University of British Columbia, Vancouver, B.C., Canada V6T 1Z1

^bOncology and Immunology Division, Building 200/4219A, Wyeth Research, 401 North Middletown Road, Pearl River, NY 10965, USA

^cFaculty of Marine Sciences and Fisheries, University of Hasanuddin, Ujung Pandang 90245, Indonesia

^dDepartment of Coelenterates and Porifera, Zoologisch Museum, University of Amsterdam, Amsterdam, Netherlands

Five novel and three known terpenoid inhibitors of RCE protease have been isolated from an Indonesian marine sponge.



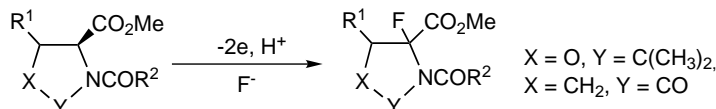
Barangcadioic Acid A 1

**Electrolytic partial fluorination of organic compounds. Part 61:
The first example of direct α -fluorination of protected α -amino acids**

Tetrahedron Letters 43 (2002) 4805

Daisuke Baba and Toshio Fuchigami*

Department of Electronic Chemistry, Tokyo Institute of Technology, Nagatsuta, Midori-ku, Yokohama 226-8502, Japan

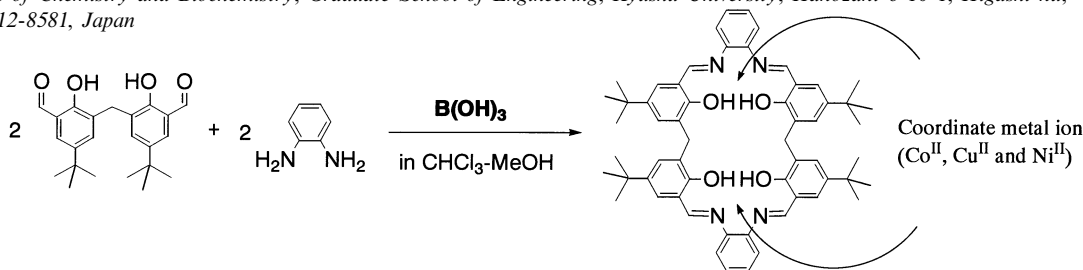


New macrocyclic ligands having discrete metal binding sites

Tetrahedron Letters 43 (2002) 4809

Hisashi Shimakoshi, Hiroki Takemoto, Isao Aritome and Yoshio Hisaeda*

Department of Chemistry and Biochemistry, Graduate School of Engineering, Kyushu University, Hakozaki 6-10-1, Higashi-ku, Fukuoka 812-8581, Japan



Indium-mediated coupling of bromoacetonitriles with aromatic acyl cyanides: convenient synthesis of aromatic α -cyano ketones

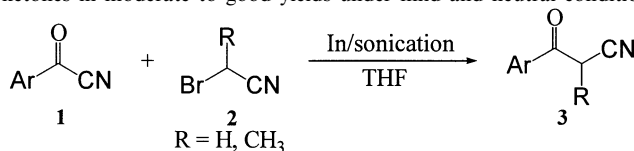
Tetrahedron Letters 43 (2002) 4813

Byung Woo Yoo,^{a,*} Sun Kyun Hwang,^a Dong Yoon Kim,^a Jin Woo Choi,^a Jae Jung Ko,^a Kyung Il Choi^b and Joong Hyup Kim^b

^aDepartment of Chemistry, Korea University, Jochiwon, Chungnam 339-700, South Korea

^bBiochemicals Research Center, Korea Institute of Science and Technology, Cheongryang, Seoul 130-650, South Korea

Indium-mediated coupling of bromoacetonitrile and 2-bromopropionitrile with a variety of aromatic acyl cyanides afforded the corresponding aromatic α -cyano ketones in moderate to good yields under mild and neutral conditions.



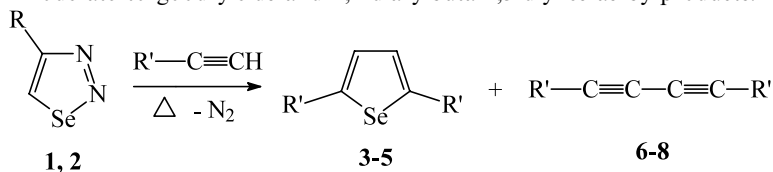
A novel method for the synthesis of 2,5-diarylselenophenes

Tetrahedron Letters 43 (2002) 4817

Pavel Arsenyan,* Olga Pudova and Edmunds Lukevics

Latvian Institute of Organic Synthesis, Aizkraukles 21, Riga, LV-1006, Latvia

The reaction of 4-phenyl- or (2-thienyl)-1,2,3-selenadiazoles with 10 equiv. of arylacetylenes leads to the formation of 2,5-diarylselenophenes in moderate to good yields and 1,4-diarylbuta-1,3-diyne as by-products.



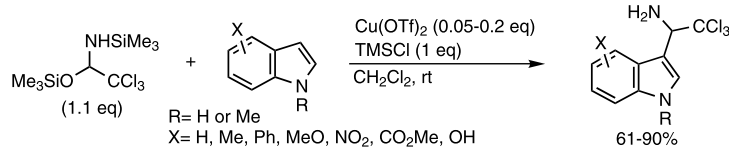
R=Ph, 2-Thienyl; R'=Ph, 2-Py, 2-Me-5-Py

Friedel-Crafts reaction of indoles with *N*-silyl-*N,O*-acetal catalyzed by Cu(OTf)₂ in the presence of TMSCl leading to indolyl primary amines

Tetrahedron Letters 43 (2002) 4821

Norio Sakai,* Toshihiro Hamajima and Takeo Konakahara*

Department of Pure and Applied Chemistry, Faculty of Science and Technology, Tokyo University of Science, Noda, Chiba 278-8510, Japan

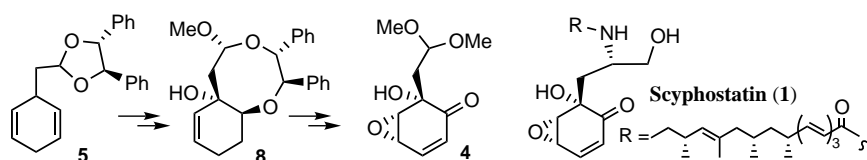


Concise asymmetric synthesis of a model compound, (4*S*,5*S*,6*S*)-6-(2,2-dimethoxy)ethyl-4,5-epoxy-6-hydroxy-2-cyclohexenone, for the cyclohexenone core of scyphostatin

Tetrahedron Letters 43 (2002) 4825

Hirofumi Fujioka,* Naoyuki Kotoku, Yoshinari Sawama, Yasushi Nagatomi and Yasuyuki Kita*

Graduate School of Pharmaceutical Sciences, Osaka University, 1-6 Yamada-oka, Suita, Osaka 565-0871, Japan

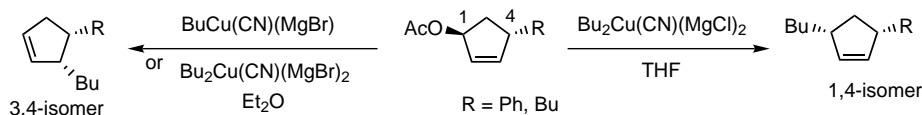


Alkylation of 4-substituted 1-acetoxy-2-cyclopentenes by using copper reagents derived from alkylmagnesium halides and copper(I) cyanide

Tetrahedron Letters 43 (2002) 4829

Yuichi Kobayashi,* Michiko Ito and Junji Igarashi

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



A new route to 1,4-disubstituted 5-thioxoperhydroimidazo[4,5-d]-imidazol-2-ones

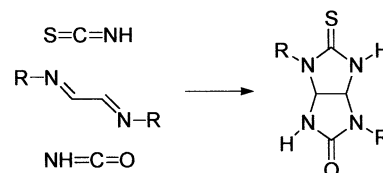
Tetrahedron Letters 43 (2002) 4833

Jiří Verner,^a Jan Taraba^b and Milan Potáček^{a,*}

^aDepartment of Organic Chemistry, Faculty of Science, Masaryk University of Brno, Kotlářská 2, 611 37 Brno, Czech Republic

^bDepartment of Inorganic Chemistry, Faculty of Science, Masaryk University of Brno, Kotlářská 2, 611 37 Brno, Czech Republic

1,4-Disubstituted 5-thioxoperhydroimidazo[4,5-d]imidazol-2-ones were prepared by one-pot criss-cross cycloaddition.

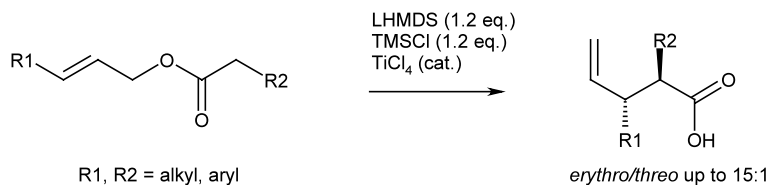


Highly diastereoselective Lewis acid promoted Claisen–Ireland rearrangement

Tetrahedron Letters 43 (2002) 4837

Guido Koch,^{*} Philipp Janser, Georg Kottirsch and Eva Romero-Giron

Novartis Pharma AG, Postfach, CH-4002 Basel, Switzerland

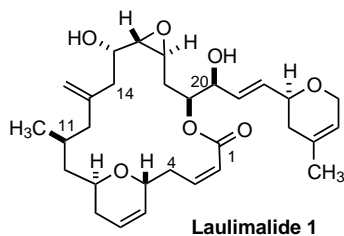


Synthesis of (–)-laulimalide: an agent for microtubule stabilization

Tetrahedron Letters 43 (2002) 4841

David R. Williams,^{*} Liang Mi, Richard J. Mullins and Ryan E. Stites

Department of Chemistry, Indiana University, 800 East Kirkwood Avenue, Bloomington, IN 47405-7102, USA



The synthesis of 3,3,4,4-tetraphenyl-2-butanone from 1,1-diphenylacetone

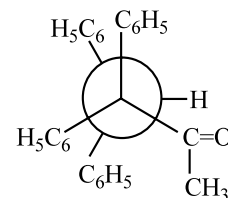
Tetrahedron Letters 43 (2002) 4845

Herman E. Zieger,^{a,*} Choi Han Tsang,^a Mohammed Malik^a and Louis J. Todaro^b

^aDepartment of Chemistry, Brooklyn College of CUNY, 2900 Bedford Avenue, Brooklyn, NY 11210, USA

^bDepartment of Chemistry, Hunter College of CUNY, 695 Park Avenue, New York, NY 10021, USA

The diphenylmethylene enolate from 1,1-diphenylacetone is alkylated with diphenylmethylhalides to form 3,3,4,4-tetraphenyl-2-butanone. Single crystal X-ray shows the acetyl group between the eclipsed and *gauche* conformations.

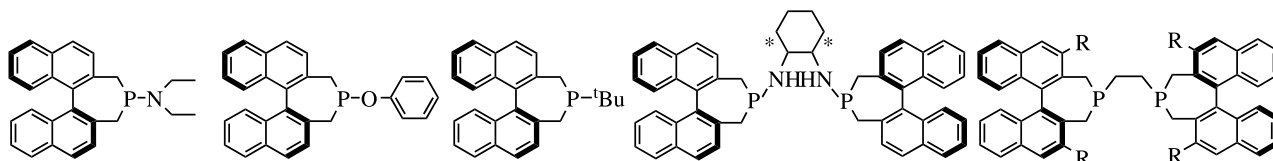


Synthesis of novel chiral binaphthyl phosphorus ligands and their applications in Rh-catalyzed asymmetric hydrogenation

Yongxiang Chi and Xumu Zhang*

Department of Chemistry, Pennsylvania State University, University Park, PA 16802, USA

Tetrahedron Letters 43 (2002) 4849



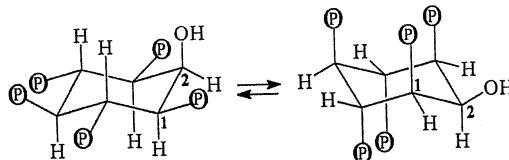
Conformational flexibility of inositol phosphates: influence of structural characteristics

Carla J. Volkmann,^a Ginger M. Chateauf,^a Jyotsna Pradhan,^b Andrew T. Bauman,^a Richard E. Brown^{a,*} and Pushpalatha P. N. Murthy^{a,*}

^aDepartment of Chemistry, Michigan Technological University, Houghton, MI 49931, USA

^bDepartment of Natural Sciences, University of North Florida, Jacksonville, FL 32224, USA

Tetrahedron Letters 43 (2002) 4853



A novel ring expansion of the pleuromutilin skeleton

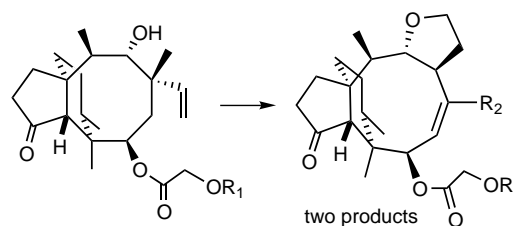
Dane M. Springer,^{a,*} Jason T. Goodrich^a and Stella Huang^b

^aAnti-infective Chemistry, Bristol-Myers Squibb Pharmaceutical Research Institute, 5 Research Parkway, PO Box 5100, Wallingford, CT 06492, USA

^bDiscovery Analytical Sciences, Bristol-Myers Squibb Pharmaceutical Research Institute, 5 Research Parkway, PO Box 5100, Wallingford, CT 06492, USA

An unprecedented cyclooctane to cyclononene ring expansion in the pleuromutilin skeleton has been discovered. The process entails an intramolecular cyclization of an oxonium ion into an olefin, followed by 1,2 migration of a carbon of the cyclooctane ring.

Tetrahedron Letters 43 (2002) 4857

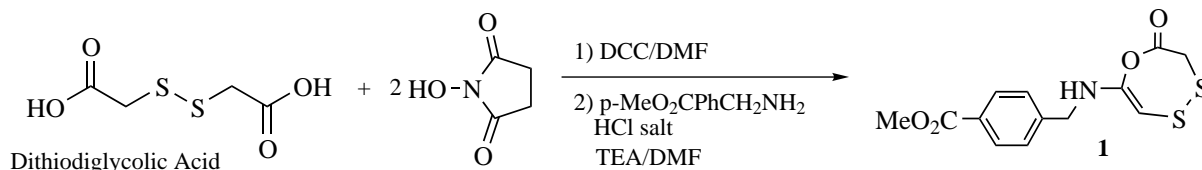


Unexpected reactions of dithidiglycolic acid: isolation of a novel seven-membered ring system based on a 2-amino derivative of 7-oxo-6,7-dihydro-[1,4,5]oxadithiepine

Min Li,^{*} Robert S. Wu, Jane Tsai and Salvatore J. Salamone

Roche Diagnostic Corporation, 9115 Hague Road, Indianapolis, IN 46250, USA

Tetrahedron Letters 43 (2002) 4861

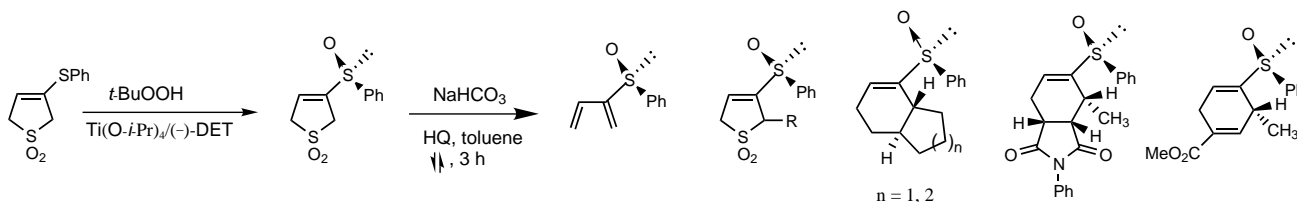


Asymmetric synthesis and applications of chiral 3-phenylsulfinyl-3-sulfolenes

Tetrahedron Letters 43 (2002) 4865

Shang-Shing P. Chou* and Pi-Wei Liang

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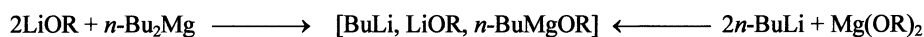


Chemical and physical evidence for metal-metal interchange between lithium alkoxides and di-*n*-butylmagnesium

Tetrahedron Letters 43 (2002) 4871

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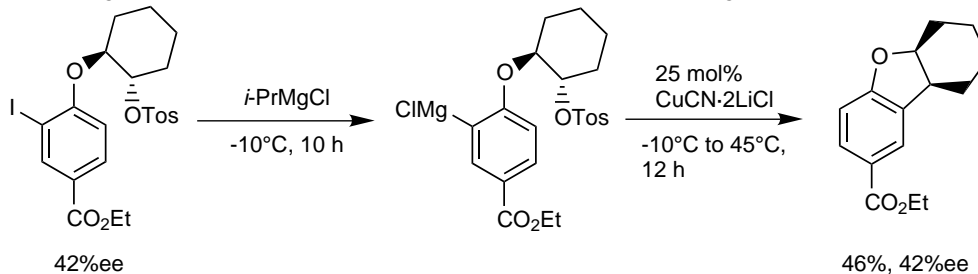


Stereoselective cyclizations mediated by functionalized organomagnesium reagents and catalyzed by cobalt or copper salts

Tetrahedron Letters 43 (2002) 4875

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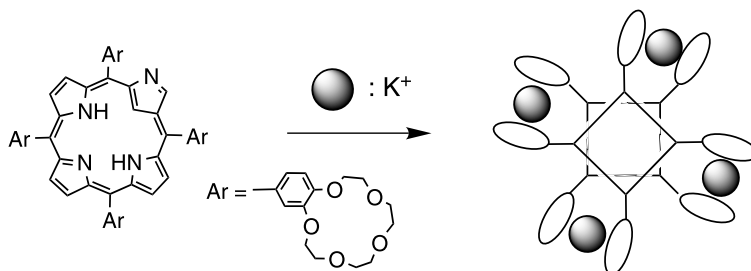


Effective face-to-face dimerization of a crown ether appended *N*-confused porphyrin

Tetrahedron Letters 43 (2002) 4881

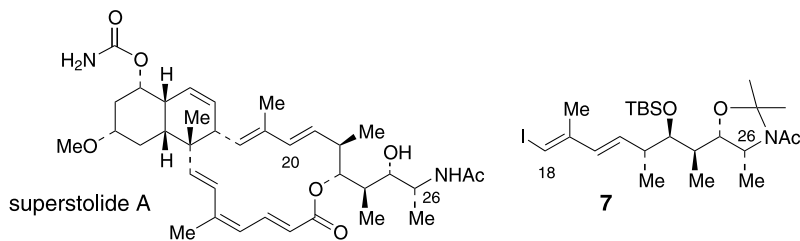
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Synthesis of the C(18)–C(26) segment of superstolide A

William R. Roush,* Larry Hertel, Matthew J. Schnaderbeck and Neal A. Yakelis

Department of Chemistry, University of Michigan, 930 North University, Ann Arbor, MI 48109-1055, USA**Synthesis of D-ribo-C₁₈-phytosphingosine from D-glucosamine via the D-allosamine derivatives as key intermediates**Shun-Yuan Luo,^a Shankar R. Thopate,^a Ching-Yun Hsu^b and Shang-Cheng Hung^{a,*}^a*Institute of Chemistry, Academia Sinica, Taipei 115, Taiwan*^b*Department of Chemical Engineering, Cheng-Shiu Institute of Technology, 840 Cheng-Ching Road, Kaohsiung County 833, Taiwan*A straightforward synthesis of D-ribo-C₁₈-phytosphingosine from D-glucosamine hydrochloride in ten steps in 18.4% overall yield via the D-allosamine derivatives as key intermediates is described here.