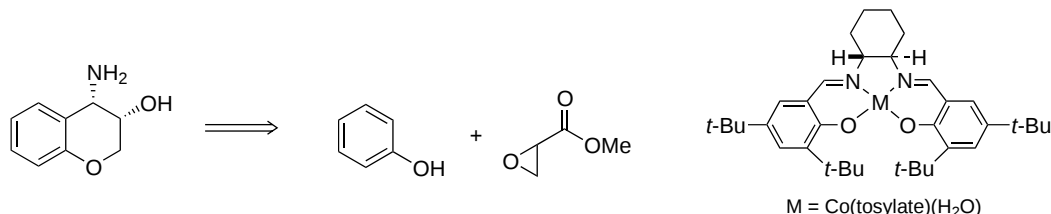


Asymmetric synthesis of *cis*-aminochromanol*Tetrahedron Letters* 42 (2001) 8743

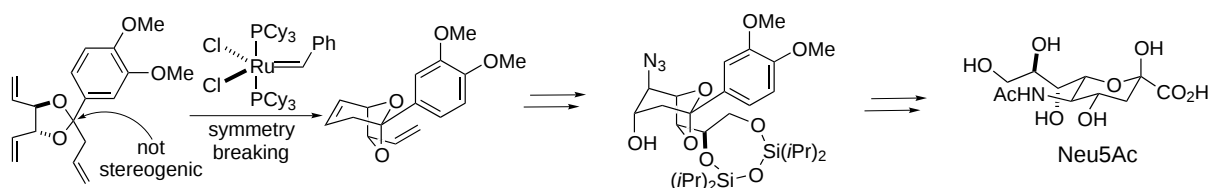
Karl B. Hansen,* Philippe Rabbat, Shawn A. Springfield,
Paul N. Devine, Edward J. J. Grabowski and Paul J. Reider

Department of Process Research, Merck and Co., PO Box 2000, Rahway, NJ 07765, USA

**Formal synthesis of (–)-*N*-acetylneuraminic acid (Neu5Ac) via desymmetrization by ring-closing metathesis***Tetrahedron Letters* 42 (2001) 8747

Eric A. Voight, Christian Rein and Steven D. Burke*

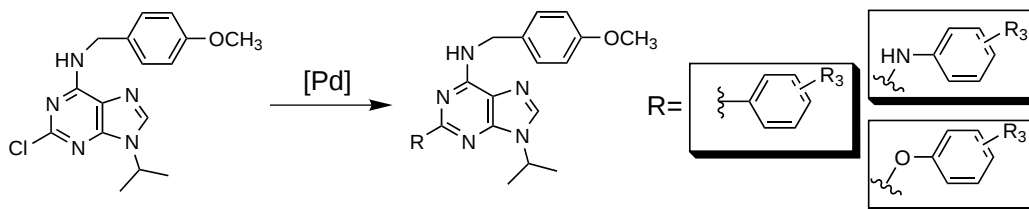
Department of Chemistry, University of Wisconsin-Madison, 1101 University Avenue, Madison, WI 53706, USA

**Expanding the diversity of purine libraries***Tetrahedron Letters* 42 (2001) 8751

Sheng Ding,^a Nathanael S. Gray,^{b,*} Qiang Ding^b and Peter G. Schultz^{a,b,*}

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

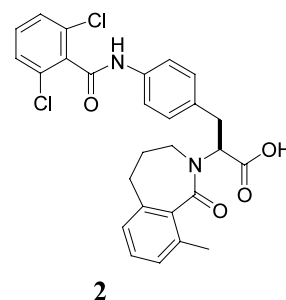
^bGenomics Institute of the Novartis Research Foundation, 3115 Merryfield Row, San Diego, CA 92121, USA

**Synthesis of constrained L-phenylalanine derivatives incorporating a benzazepinone or an azepinone ring as VCAM/VLA-4 antagonists***Tetrahedron Letters* 42 (2001) 8757

Achyutharao Sidduri,* Jian Ping Lou, Robert Campbell, Karen Rowan and Jefferson W. Tilley

Roche Research Center, Hoffmann-La Roche Inc., Nutley, NJ 07110, USA

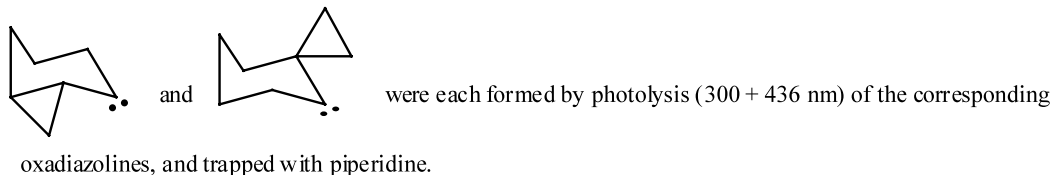
Novel constrained L-phenylalanine derivatives incorporating a benzazepinone or an azepinone ring were synthesized in 13 and 8 steps, respectively, employing a key base-catalyzed intramolecular cyclization reaction. The product, **2**, was comparable in potency in a VCAM/VLA-4 ELISA assay to the corresponding unconstrained analog **1** suggesting that cyclization favored the bioactive conformation. However, compound **4** was 100-fold less potent than the unconstrained analog **3**.



Piperidine trapping of conformationally restricted cyclopropylcarbenes

Kristie Fernamberg, John R. Snoonian and Matthew S. Platz*

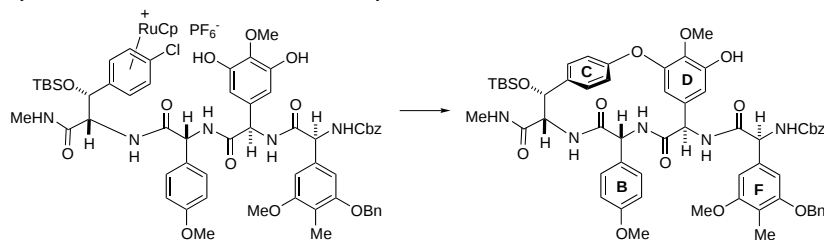
Department of Chemistry, The Ohio State University, 120 W. 18th Avenue, Columbus, OH 43210, USA



Synthetic studies on the BCDF ring system of ristocetin A via ruthenium-promoted S_NAr reaction

Anthony J. Pearson* and Sarunas Zigmantas

Department of Chemistry, Case Western Reserve University, Cleveland, OH 44106, USA

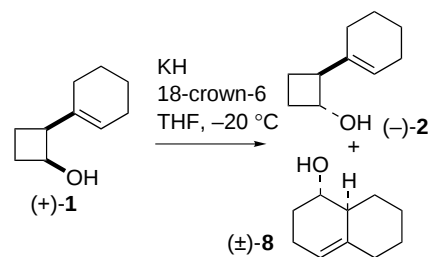


On the stereochemistry of anion-accelerated [1,3]-sigmatropic rearrangement of 2-vinylcyclobutanols

Se-Ho Kim, Sung Yun Cho and Jin Kun Cha*

Department of Chemistry, University of Alabama, Tuscaloosa, AL 35487, USA

During the course of stereochemical studies on the oxyanion-accelerated [1,3]-sigmatropic rearrangement reactions, epimerization of *cis*-2-(1-cyclohexenyl)cyclobutanol to the *trans*-isomer at -20°C was found to proceed with predominant retention of configuration, the degree of which was enhanced by an increasing amount of 18-crown-6.

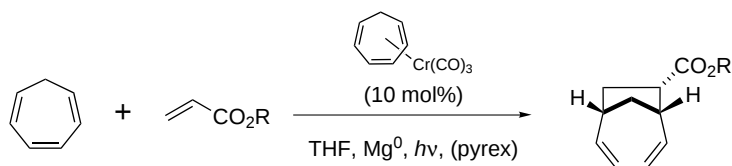


Room temperature chromium(0)-catalyzed higher-order cycloaddition reactions

James H. Rigby,* Larry W. Mann and Brian J. Myers

Department of Chemistry, Wayne State University, Detroit, MI 48202, USA

Room temperature thermal and photochemical chromium(0)-catalyzed higher-order cycloaddition processes are described.

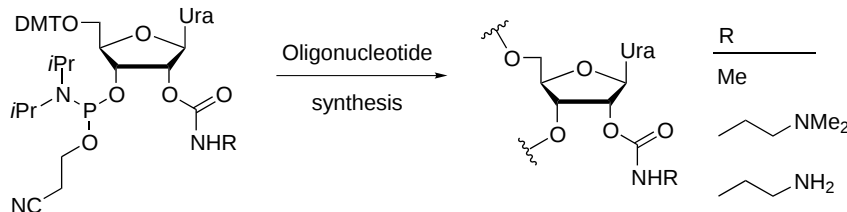


2'-O-Carbamate-containing oligonucleotides: synthesis and properties

Tetrahedron Letters 42 (2001) 8777

Marija Prhavc, Elena A. Lesnik, V. Mohan and Muthiah Manoharan*

Department of Medicinal Chemistry, Isis Pharmaceuticals, 2292 Faraday Ave., Carlsbad, CA 92008, USA



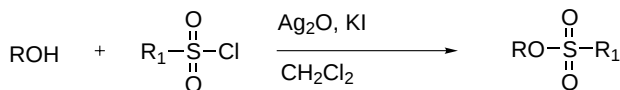
Silver(I) oxide-mediated facile and practical sulfonylation of alcohols

Tetrahedron Letters 42 (2001) 8781

Abderrahim Bouzide,* Nicolas LeBerre and Gilles Sauv  *

INRS-Institut Armand Frappier, 531, Boulevard des prairies, Laval, QC, Canada H7V 1B7

Primary and secondary alcohols were efficiently sulfonylated in the presence of silver(I) oxide and potassium iodide in dichloromethane.



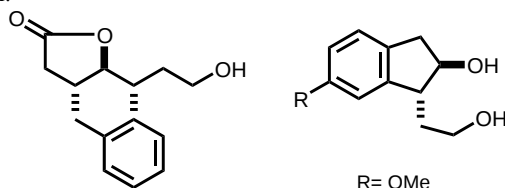
From glyceraldehyde to functionalized enantiopure tetrahydronaphthalenes and indanes

Tetrahedron Letters 42 (2001) 8785

Stephen Hanessian* and Jianguo Ma

Department of Chemistry, Universit   de Montr  al, CP 6128, Succ. Centre-Ville, Montreal, PQ, Canada, H3C 3J7

Tricyclic tetrahydronaphthalenes comprising *cis*- and *trans*-fused lactones and aryl substituted functionalized indanes were synthesized in enantiopure form.



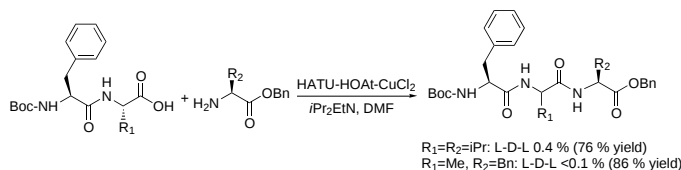
O-(7-Azabenzotriazol-1-yl)-1,1,3,3-tetramethyluronium hexafluorophosphate-1-hydroxy-7-azabenzotriazole-copper(II) chloride: a promising epimerization-free segment coupling system for peptide synthesis

Tetrahedron Letters 42 (2001) 8789

Yasuhiro Nishiyama,^{a,*} Sou Ishizuka^b and Keisuke Kurita^b

^aChemical Immunology and Therapeutics Research Center, Department of Pathology and Laboratory Medicine, University of Texas-Houston Medical School, 6431 Fannin, Houston, TX 77030, USA

^bDepartment of Applied Chemistry, Faculty of Engineering, Seikei University, Musashino-shi, Tokyo 180-8633, Japan

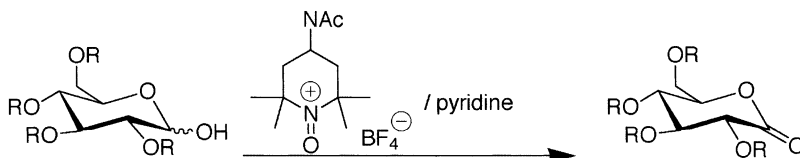


Oxoammonium salts. Part 8: Oxidations in base: oxidation of O-1 unprotected monosaccharides to lactones using 4-acetylaminopyridine-1-oxoammonium tetrafluoroborate

Nabyl Merbouh, James M. Bobbitt and Christian Brückner*

Department of Chemistry, University of Connecticut, Storrs, CT 06269-3060, USA

Tetrahedron Letters 42 (2001) 8793

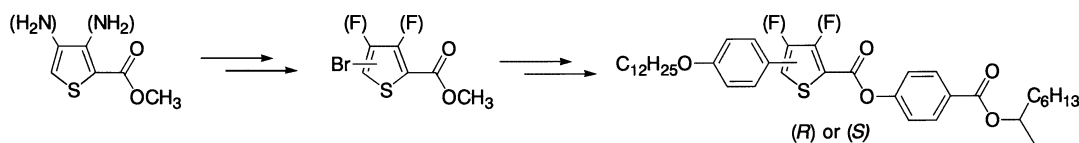


Ring fluorinated thiophenes: applications to liquid crystal synthesis

Andre A. Kiryanov, Alexander J. Seed and Paul Sampson*

Department of Chemistry, Kent State University, Kent, OH 44242-0001, USA

Tetrahedron Letters 42 (2001) 8797

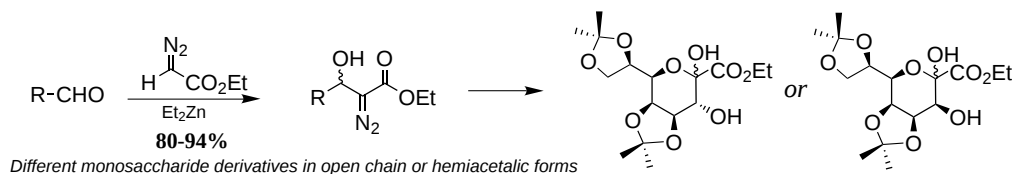


β-Oxy-α-diazo-carbonyl compounds. Part 5: An improved synthesis of β-hydroxy-α-diazo esters derived from monosaccharides and synthetic applications in the chemistry of 3-deoxy-2-ulosonic acids

Francisco Sarabia and F. Jorge López-Herrera*

Departamento de Bioquímica, Biología Molecular y Química Orgánica, Facultad de Ciencias, Universidad de Málaga, 29071 Málaga, Spain

Tetrahedron Letters 42 (2001) 8801

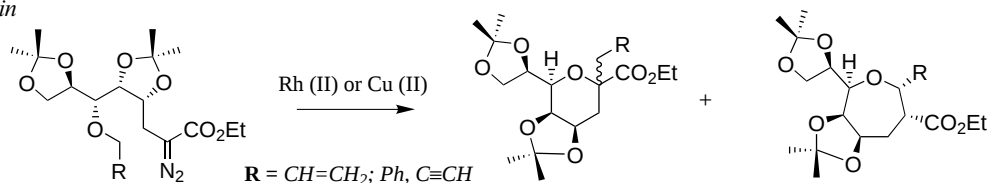


β-Oxy-α-diazo-carbonyl compounds. Part 6: Synthesis and reactivity of 3-deoxy-2-diazo-esters derived from monosaccharides. Applications in the synthesis of 2-C-alkyl-KDO analogues and related compounds

Francisco Sarabia and Fidel Jorge López-Herrera*

Departamento de Bioquímica, Biología Molecular y Química Orgánica, Facultad de Ciencias, Universidad de Málaga, 29071 Málaga, Spain

Tetrahedron Letters 42 (2001) 8805



One-pot highly stereoselective reduction of β -keto amides to *syn*- γ -aminols

Tetrahedron Letters 42 (2001) 8811

Giuseppe Bartoli,^{a,*} Marcella Bosco,^a Renato Dalpozzo,^b

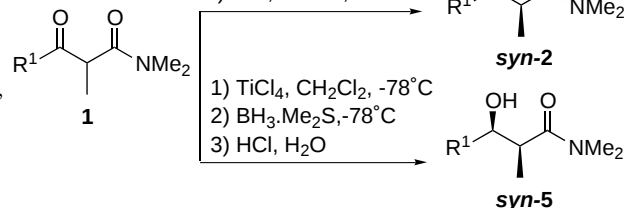
Enrico Marcantoni,^c Massimo Massaccesi,^a

Samuele Rinaldi^a and Letizia Sambri^a

^aDipartimento di Chimica Organica 'A. Mangini',
Università di Bologna, v.le Risorgimento 4, 40136 Bologna, Italy

^bDipartimento di Chimica, Università della Calabria, Ponte Bucci,
I-87030 Arcavacata di Rende (CS), Italy

^cDipartimento di Scienze Chimiche, Università di Camerino,
v. S. Agostino 1, 62032 Camerino (MC), Italy



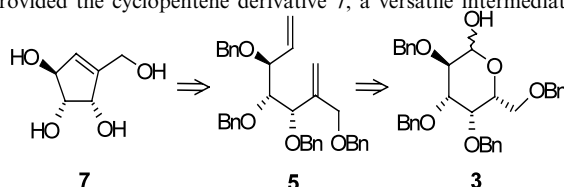
Enantioselective synthesis of carba-L-furanose precursors of carbanucleosides, using ring-closing metathesis

Tetrahedron Letters 42 (2001) 8817

Isabelle Gillaizeau, Steve Charamon and Luigi A. Agrofoglio*

Institut de Chimie Organique et Analytique, ICOA UMR CNRS 6005, UFR Sciences, BP 6759, 45067 Orleans Cedex 2, France

Carba-L-sugars were synthesized in seven steps from known tetra-*O*-benzyl-D-galactopyranose (3). Using Schrock's catalyst, the ring-closing metathesis of diene 5 provided the cyclopentene derivative 7, a versatile intermediate for the synthesis of carbocyclic nucleosides.



Synthesis of a non-charged analogue of guanosyldiphosphofucose

Tetrahedron Letters 42 (2001) 8821

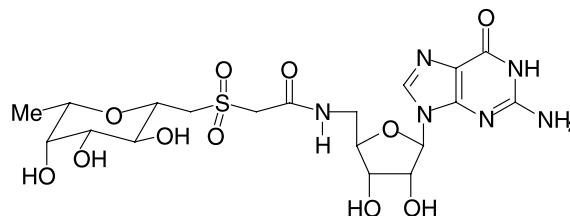
Gérald Carchon,^a Françoise Chrétien,^a Philippe Delannoy,^b

André Verbert^b and Yves Chapleur^{a,*}

^aGroupe S.U.C.R.E.S., UMR 7565 CNRS-Université Henri Poincaré-Nancy 1, INCM, BP 239, F-54506 Nancy Vandoeuvre, France

^bLaboratoire de Chimie Biologique, UMR 8576, CNRS Université des Sciences et Technologies de Lille, F-59655 Villeneuve d'Ascq, France

A C-glycosidic analogue of guanosyldiphosphofucose has been synthesized as a potential inhibitor of fucosyltransferases.



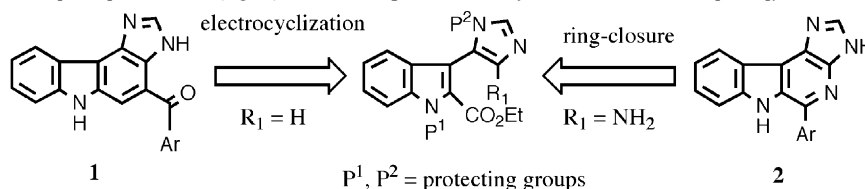
A short route to functionalized imidazo[4,5-*c*]carbazoles. Synthesis of the first example of the imidazo[4,5-*c*]β-carboline ring system

Tetrahedron Letters 42 (2001) 8825

Said Achab,^{*} Khalid Diker and Pierre Potier

Institut de Chimie des Substances Naturelles, CNRS, 91 198 Gif-sur-Yvette, France

A short access to imidazo[4,5-*c*]carbazoles (e.g. **1**) and the unprecedented synthesis of imidazolo[4,5-*c*]β-carboline ring system (e.g. **2**) are presented.



Diastereoselective synthesis and reactions of diorganozinc reagents obtained after hydroborations with 9-BBN-H, thexylborane and catecholborane

Tetrahedron Letters 42 (2001) 8829

Eike Hupe, M. Isabel Calaza and Paul Knochel*

Ludwig-Maximilians-University Munich, Department of Chemistry, Butenandstraße 5-13, 81377 Munich, Germany

The scope of organoboranes can be greatly enhanced by a boron–zinc exchange reaction, providing organozincs that react with a broad range of electrophiles. Diastereomerically enriched diorganozincs can be obtained after hydroborations with 9-BBN-H, thexylborane and catecholborane.

Addition of organocerium reagents to homoallyl alcohols

Tetrahedron Letters 42 (2001) 8833

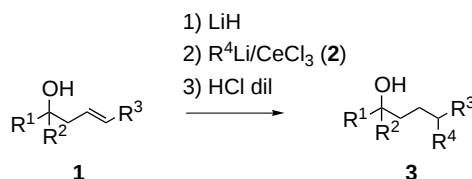
Giuseppe Bartoli,^a Renato Dalpozzo,^{b,*} Antonio De Nino,^b

Antonio Procopio,^b Letizia Sambri^a and Antonio Tagarelli^b

^a*Dipartimento di Chimica Organica ‘A. Mangini’, Università di Bologna, viale Risorgimento 4, I-40136 Bologna, Italy*

^b*Dipartimento di Chimica, Università della Calabria, ponte Bucci, I-87030 Arcavacata di Rende (Cs), Italy*

Alkylcerium reagents and hydride ions add to multiple bonds of homoallyl alcohols under mild conditions.



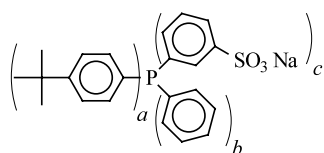
Convenient synthesis of new amphiphilic triphenylphosphine analogues for aqueous biphasic catalysis

Tetrahedron Letters 42 (2001) 8837

Laurent Caron, Michaël Canipelle, Sébastien Tilloy, Hervé Bricout and Eric Monflier*

Université d'Artois, Faculté des Sciences J. Perrin, Rue J. Souvraz, SP 18, 62307 Lens Cedex, France

Three analogues of triphenylphosphine with amphiphilic character were synthesized. In combination with palladium acetate these ligands form active catalysts that promote the cleavage of allyl undecyl carbonate in biphasic medium. One of these catalysts can be recovered six times without loss of activity.



(a, b, c) : (1, 0, 2); (1, 1, 1); (2, 0, 1)

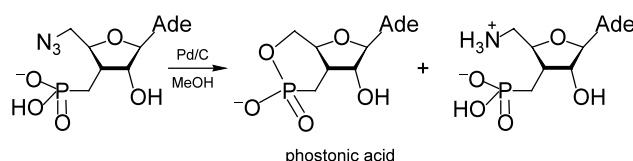
Formation of phostonic acids during the reduction of azidonucleosidephosphonic acids

Tetrahedron Letters 42 (2001) 8841

Michael Morr,^{a,*} Christel Kakoschke^a and Ludger Ernst^b

^a*GBF-Gesellschaft für Biotechnologische Forschung, Mascheroder Weg 1, D-38124 Braunschweig, Germany*

^b*Department of Chemistry, Technical University of Braunschweig, D-38092 Braunschweig, Germany*

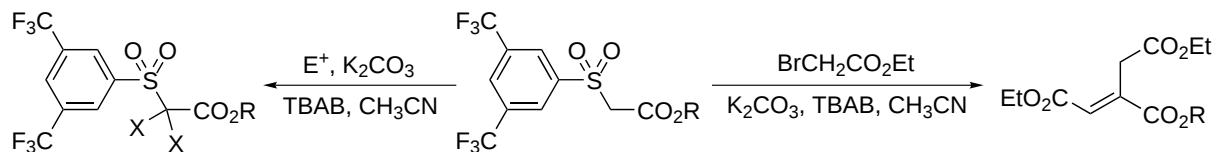


π -Deficient α -arylsulfonyl esters as soft nucleophiles in organic synthesis

Tetrahedron Letters 42 (2001) 8845

Diego A. Alonso, Carmen Nájera* and Montserrat Varea

Departamento de Química Orgánica, Universidad de Alicante, Apartado. 99, 03080 Alicante, Spain

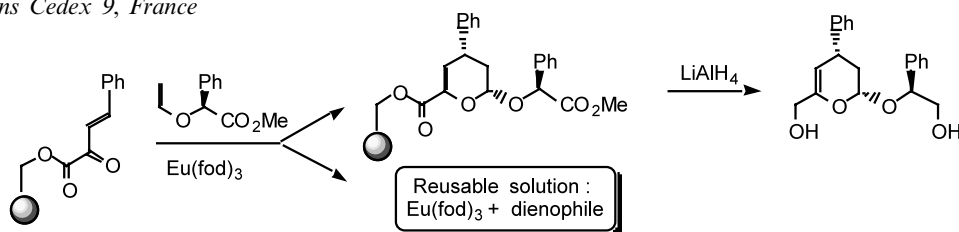


Eu(fod)₃-catalyzed solid-phase [4+2] heterocycloadditions: an efficient asymmetric process in catalyst-recycling conditions

Tetrahedron Letters 42 (2001) 8849

Gilles Dujardin,* Stéphane Leconte, Ludovic Coutable and Eric Brown

Laboratoire de Synthèse Organique (associé au CNRS), Faculté des Sciences, Avenue Olivier Messiaen, F-72085 Le Mans Cedex 9, France



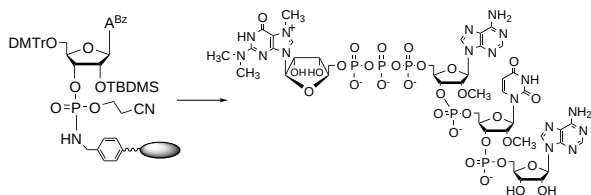
Solid-phase synthesis of a 5'-terminal TMG-capped trinucleotide block of U1 snRNA

Tetrahedron Letters 42 (2001) 8853

Michinori Kadokura,^a Takeshi Wada,^a Kohji Seio,^a Tomohisa Moriguchi,^a Jochen Huber,^b Reinhard Lührmann^b and Mitsuo Sekine^{a,*}

^aDepartment of Life Science, Tokyo Institute of Technology, Nagatsuta, Midoriku, Yokohama 226-8501, Japan

^bInstitut für Molekularbiologie und Tumorforschung, Philipps-Universität Marburg, Emil-Mannkopff-Straße 2, D-3550 Marburg, Germany

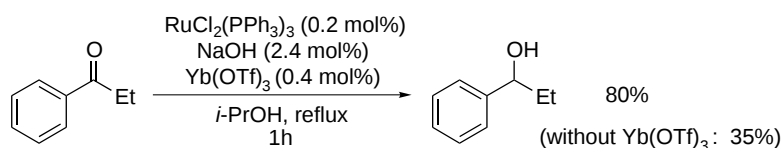


Acceleration of ruthenium(II)- and rhodium(I)-catalyzed hydrogen-transfer reaction by rare earth metal triflates

Tetrahedron Letters 42 (2001) 8857

Hirofumi Matsunaga, Naoko Yoshioka and Takehisa Kunieda*

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

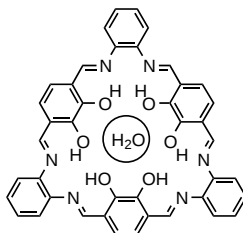


Synthesis and crystal structure of a novel triangular macrocyclic molecule, tris(H₂saloph), and its water complex

Tetrahedron Letters 42 (2001) 8861

Shigehisa Akine, Takanori Taniguchi and Tatsuya Nabeshima*

Department of Chemistry, University of Tsukuba, Tsukuba, Ibaraki 305-8571, Japan

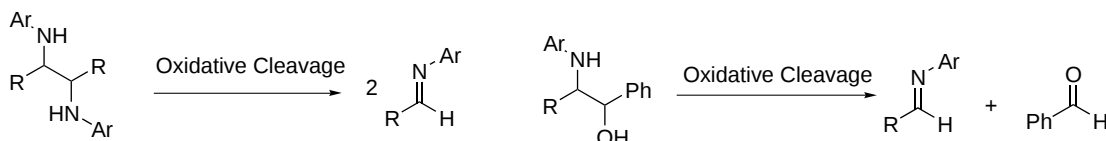


Oxidative carbon-carbon bond cleavage reaction of 1,2-diamines and 1,2-amino alcohols under an oxygen atmosphere

Tetrahedron Letters 42 (2001) 8865

Makoto Shimizu* and Hiroaki Makino

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



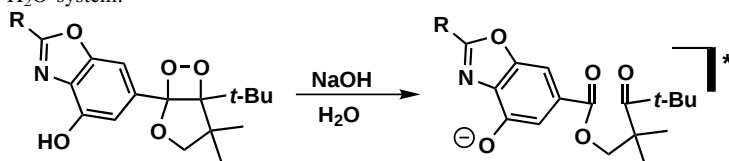
Base-induced chemiluminescence of 5-*tert*-butyl-1-(4-hydroxybenz[d]oxazol-6-yl)-4,4-dimethyl-2,6,7-trioxabicyclo[3.2.0]heptanes: chemiluminescence-chemiexcitation profile in aqueous medium

Tetrahedron Letters 42 (2001) 8869

Masakatsu Matsumoto,* Yasuko Mizoguchi, Takuma Motoyama and Nobuko Watanabe

Department of Materials Science, Kanagawa University, Tsuchiya, Hiratsuka, Kanagawa 259-1205, Japan

Bicyclic dioxetanes bearing a 4-hydroxybenz[d]oxazol-6-yl moiety were synthesized, and their base-induced CIEEL was examined in TBAF-acetonitrile or NaOH-H₂O system.

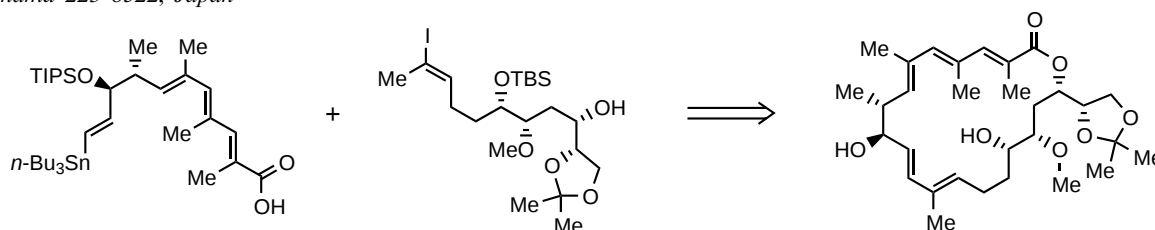


Synthetic studies on apoptolidin: synthesis of the C1-C21 macrolide fragment

Tetrahedron Letters 42 (2001) 8873

Kazunobu Toshima,* Tsuyoshi Arita, Koji Kato, Daisuke Tanaka and Shuichi Matsumura

Department of Applied Chemistry, Faculty of Science and Technology, Keio University, 3-14-1 Hiyoshi, Kohoku-ku, Yokohama 223-8522, Japan

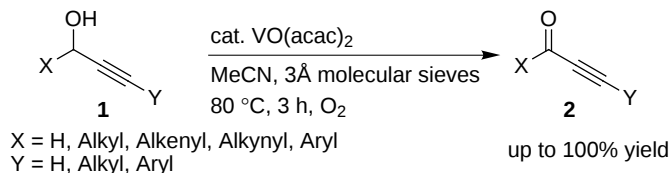


Oxovanadium complex-catalyzed oxidation of propargylic alcohols using molecular oxygen

Tetrahedron Letters 42 (2001) 8877

Yasunari Maeda, Nobuyuki Kakiuchi, Satoshi Matsumura, Takahiro Nishimura and Sakae Uemura*

Department of Energy and Hydrocarbon Chemistry, Graduate School of Engineering, Kyoto University, Sakyo-ku, Kyoto 606-8501, Japan



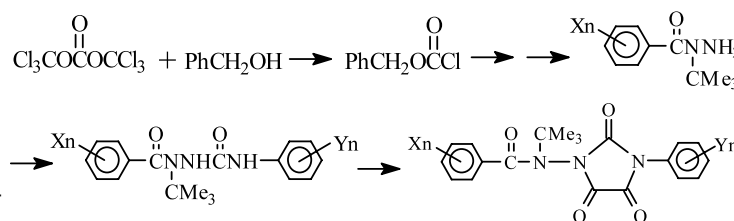
Synthesis and biological activity of novel *N'*-*tert*-butyl-*N'*-substituted benzoyl-*N*-(substituted phenyl)amino-carbonylhydrazines and their derivatives

Tetrahedron Letters 42 (2001) 8881

Qingmin Wang and Runqiu Huang*

Research Institute of Elemento-Organic Chemistry,
State Key Laboratory of Elemento-Organic Chemistry,
Nankai University, Tianjin 300071, PR China

A series of novel *N'*-*tert*-butyl-*N'*-substituted benzoyl-*N*-(substituted phenyl)aminocarbonylhydrazines and their derivatives were synthesised and evaluated for molting hormone mimicking activity.

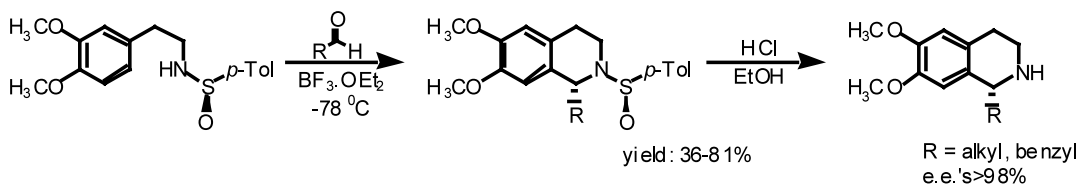


Enantiopure tetrahydroisoquinolines via *N*-sulfinyl Pictet–Spengler reactions

Tetrahedron Letters 42 (2001) 8885

Christiaan Gremmen, Martin J. Wanner and Gerrit-Jan Koomen*

Institute of Molecular Chemistry, University of Amsterdam, Nieuwe Achtergracht 129, NL-1018 WS, Amsterdam, The Netherlands



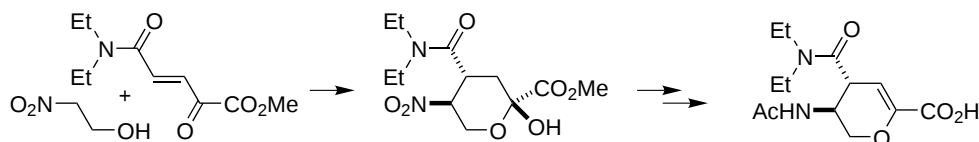
Synthesis of (4*R**,5*S**)-5-acetylamino-4-diethylcarbamoyl-5,6-dihydro-4*H*-pyran-2-carboxylic acid and its inhibitory action against influenza virus sialidases

Tetrahedron Letters 42 (2001) 8889

Sean A. Kerrigan,^a Robin G. Pritchard,^a Paul W. Smith^b and Richard J. Stoodley^{a,*}

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

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



‘Off-template site’ intramolecular nitronc cycloaddition (INC) reactions on sugar-derived allylic ethers—a study on the substituent effect and synthesis of furano-pyrans

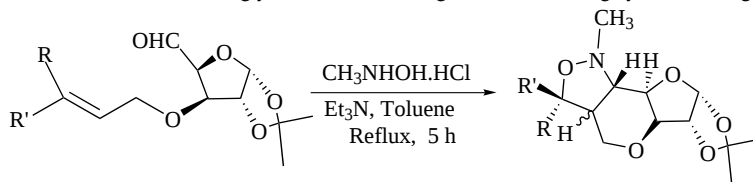
Tetrahedron Letters 42 (2001) 8893

G. V. M. Sharma,^{a,*} K. Ravinder Reddy,^a A. Ravi Sankar^b and A. C. Kunwar^b

^aD-211, Discovery Laboratory, Organic Chemistry Division III, Indian Institute of Chemical Technology, Hyderabad 500 007, India

^bNMR Group, Indian Institute of Chemical Technology, Hyderabad 500 007, India

Sugar-derived allylic ethers were converted into new glycosubstances having isoxazolidine ring systems through intramolecular nitronc addition reactions.



Mono-6-(O-2,4,6-triisopropylbenzenesulfonyl)- γ -cyclodextrin, a novel intermediate for the synthesis of mono-functionalised γ -cyclodextrins

Tetrahedron Letters 42 (2001) 8897

Ronald Palin,^{*} Simon J. A. Grove, Alan B. Prosser and Ming-Qiang Zhang

Department of Medicinal Chemistry,
Organon Laboratories Ltd., Newhouse
ML1 5SH, Scotland, UK

Selective mono C(6) derivitisation of γ -CD in high yield and purity.



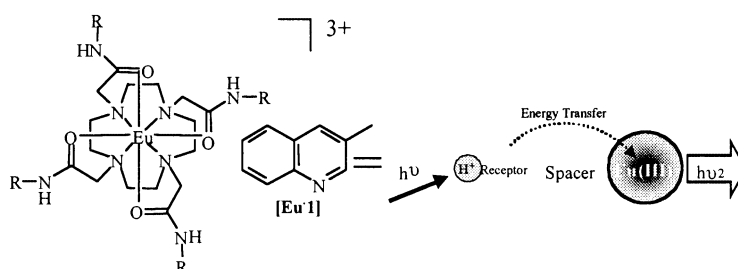
A novel Eu(III)-based luminescent chemosensor: determining pH in a highly acidic environment

Tetrahedron Letters 42 (2001) 8901

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The Eu(III) chemosensor [Eu-1] based upon the use of a combined ‘receptor–spacer–Eu(III) emitting moiety’, shows pH dependent luminescent enhancement for the Eu(III) emission in highly acidic media between pH 1.5 and 3.



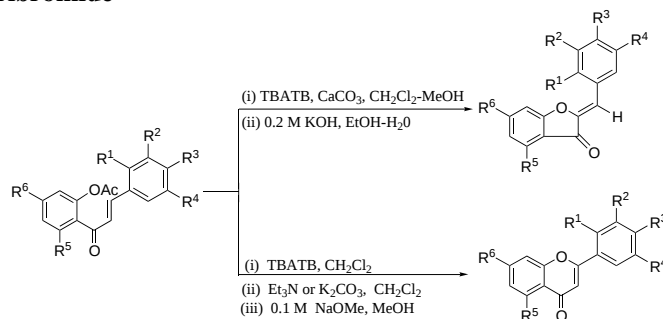
An environmentally benign synthesis of aurones and flavones from 2'-acetoxychalcones using *n*-tetrabutylammonium tribromide

Tetrahedron Letters 42 (2001) 8907

Gopal Bose,^a Ejabul Mondal,^a Abu T. Khan^{a,*} and Manob J. Bordoloi^b

^aDepartment of Chemistry, Indian Institute of Technology, Guwahati 781 039, India

^bNatural Products Chemistry Division, Regional Research Laboratory, Jorhat 785 006, India

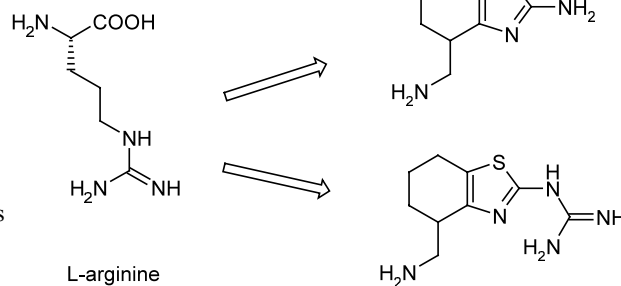


A convenient synthesis of 4-aminomethyl-4,5,6,7-tetrahydro-1,3-benzothiazole arginine side-chain mimetics

Petra Marinko, Jože Kastelic, Aleš Krbavčič and Danijel Kikelj*

University of Ljubljana, Faculty of Pharmacy, Aškerčeva 7, 1000 Ljubljana, Slovenia

A straightforward synthetic pathway to novel 4-(aminomethyl)-4,5,6,7-tetrahydro-1,3-benzothiazole arginine side-chain mimetics bearing an amino group or a guanidino residue at carbon 2 is described.



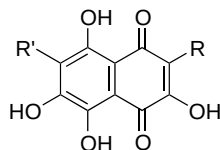
Tetrahedron Letters 42 (2001) 8911

An expedient and efficient synthetic route to some naturally occurring polyfunctional naphthazarins

Christina L. L. Chai, John A. Elix* and Felicity K. E. Moore

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A concise and versatile route to three naturally occurring polyfunctional naphthazarins, aureoquinone ($R = R' = \text{Me}$), boryquinone ($R = \text{Et}$, $R' = \text{Me}$) and 3-ethyl-2,7-dihydroxynaphthazarin ($R = \text{Et}$, $R' = \text{H}$) is described.



Tetrahedron Letters 42 (2001) 8915