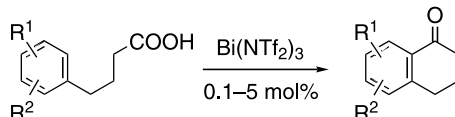


Synthesis of 1-tetralones by intramolecular Friedel–Crafts reaction of 4-arylbutyric acids using Lewis acid catalysts

Tetrahedron Letters 44 (2003) 4007

Dong-Mei Cui, Masato Kawamura, Shigeru Shimada,* Teruyuki Hayashi and Masato Tanaka

National Institute of Advanced Industrial Science and Technology (AIST), Tsukuba Central 5, Tsukuba, Ibaraki 305-8565, Japan

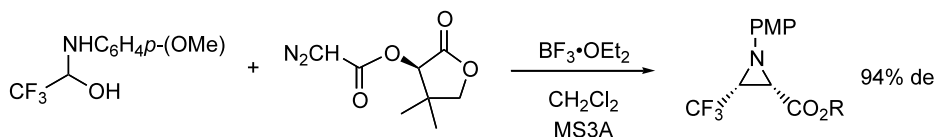
Cyclization of 4-arylbutyric acids efficiently proceeded in the presence of Lewis acid catalysts such as Bi(NTf₂)₃ and M(OTf)₃ (M = Bi, Ga, In and rare-earth metals) to form 1-tetralones in high yields.

Stereoselective synthesis of CF₃-substituted aziridines by Lewis acid-mediated aziridination of aldimines with diazoacetates

Tetrahedron Letters 44 (2003) 4011

Takahiko Akiyama,* Satoshi Ogi and Kohei Fuchibe

Department of Chemistry, Faculty of Science, Gakushuin University, 1-5-1, Mejiro, Toshima-ku, Tokyo 171-8588, Japan

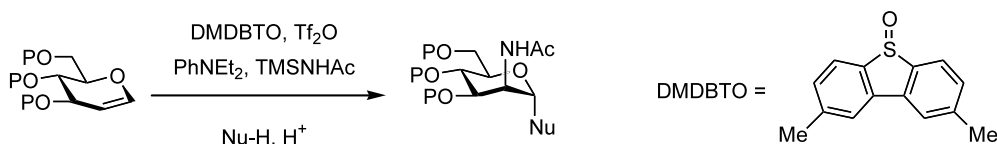


C2-Acetamidomannosylation. Synthesis of 2-N-acetylamino-2-deoxy- α -D-mannopyranosides with glucal donors

Tetrahedron Letters 44 (2003) 4015

Jing Liu, Valeria Di Bussolo and David Y. Gin*

Department of Chemistry, University of Illinois at Urbana-Champaign, Urbana, IL 61801, USA



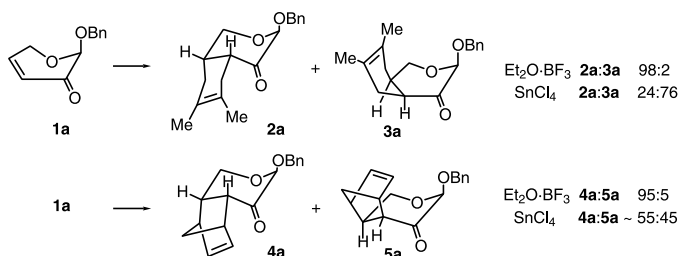
Influence of Lewis acids on the facial selectivity in cycloadditions of sugar-derived dihydropyranones

Tetrahedron Letters 44 (2003) 4023

Christian A. Iriarte Capaccio and Oscar Varela*

CIHIDECAR-CONICET, Departamento de Química Orgánica,
Facultad de Ciencias Exactas y Naturales,
Universidad de Buenos Aires, Ciudad Universitaria, Pabellón II,
1428 Buenos Aires, Argentina

The Lewis acid catalyst has a remarkable influence on the stereochemical course of Diels–Alder cycloadditions of sugar-derived 2-alkoxydihydropyranones.

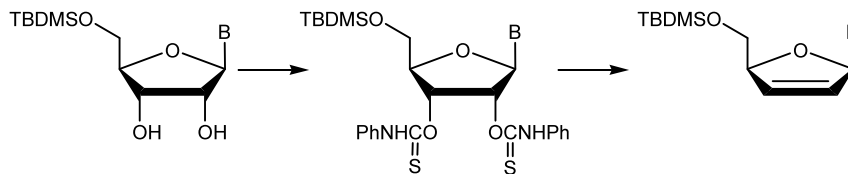


Radical-based transformation of vicinal diols to olefins via thioxocarbamate derivatives: a simple approach to 2',3'-dideoxynucleosides

Tetrahedron Letters 44 (2003) 4027

Makoto Oba, Mitsuteru Suyama, Atsushi Shimamura and Kozaburo Nishiyama*

Department of Material Science and Technology, Tokai University, 317 Nishino, Numazu, Shizuoka 410-0395, Japan



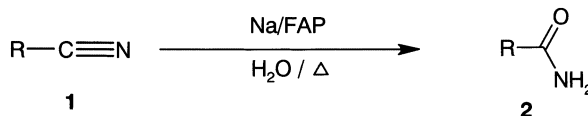
Efficient hydration of nitriles to amides catalysed by sodium nitrate modified fluorapatite

Tetrahedron Letters 44 (2003) 4031

Abderrahim Solhy,^a Abdellatif Smahi,^a Hanane El Badaoui,^a Brahim Elaabar,^a Abderrahim Amoukal,^a Abdellatif Tikad,^a Saïd Sebt^{a,*} and D. J. Macquarrie^b

^aLaboratoire de Chimie Organique Appliquée et Catalyse, Université Hassan II, Faculté des Sciences Ben M'Sik B.P. 7955, 20702 Casablanca, Morocco

^bDepartment of Chemistry, University of York, Heslington, York YO10 5DD, UK



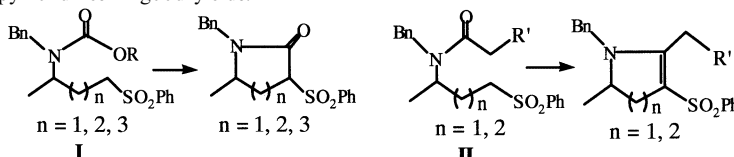
Synthesis of lactams and other nitrogen heterocycles by intramolecular cyclizations of carbamates and acyl derivatives of aminosulfones

Tetrahedron Letters 44 (2003) 4035

Nora M. Hernandez, Melina J. Sedano, Hollie K. Jacobs and Aravamudan S. Gopalan*

Department of Chemistry and Biochemistry, New Mexico State University, Las Cruces, NM 88003-8001, USA

The carbamate and *N*-acyl derivatives of aminosulfones of the type I and II underwent intramolecular cyclization with LHMDS to give lactams and substituted dihydropyrrolidines in good yields.



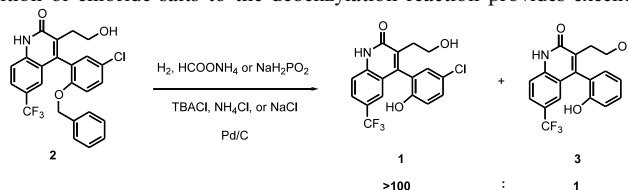
Selective removal of a benzyl protecting group in the presence of an aryl chloride under gaseous and transfer hydrogenolysis conditions

Tetrahedron Letters 44 (2003) 4041

Jun Li,* Steve Wang, Gerard A. Crispino, Karen Tenhuisen, Ambarish Singh and John A. Grosso

Process Research & Development, Pharmaceutical Research Institute, Bristol-Myers Squibb Co., PO Box 191, New Brunswick, NJ 08903-0191, USA

Selective removal of a benzyl protecting group in the presence of an aryl chloride using Pd/C under gaseous and transfer hydrogenolysis conditions is described. The addition of chloride salts to the debenzylization reaction provides excellent selectivity.



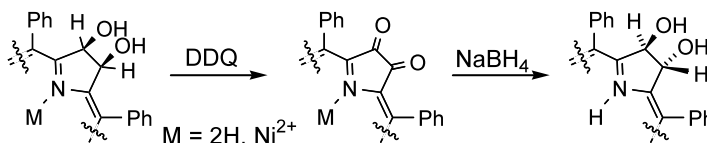
Oxidation of *meso*-tetraphenyl-2,3-dihydroxychlorin: simplified synthesis of β,β' -dioxochlorins

Tetrahedron Letters 44 (2003) 4045

Heather W. Daniell,^a Suzanna C. Williams,^a Hilary A. Jenkins^b and Christian Brückner^{a,*}

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

^b*X-Ray Diffraction Facility, Department of Chemistry, Saint Mary's University, Halifax, NS B3H 3C3, Canada*

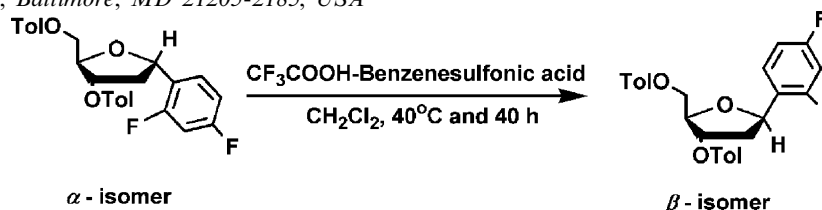


Novel epimerization of aromatic *C*-nucleosides with electron-withdrawing substituents with trifluoroacetic acid–benzenesulfonic acid using mild conditions

Tetrahedron Letters 44 (2003) 4051

Yu Lin Jiang and James T. Stivers*

Department of Pharmacology and Molecular Sciences, Johns Hopkins University School of Medicine, 725 North Wolfe Street, Baltimore, MD 21205-2185, USA

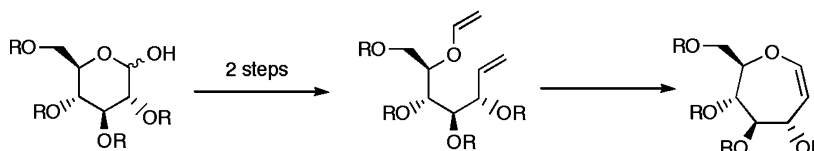


Carbohydrate-based oxepines: ring expanded glycals for the synthesis of septanose saccharides

Tetrahedron Letters 44 (2003) 4057

Mark W. Pecuh* and Nicole L. Snyder

Department of Chemistry, The University of Connecticut, 55 North Eagleville Road, Storrs, CT 06269-3060 USA

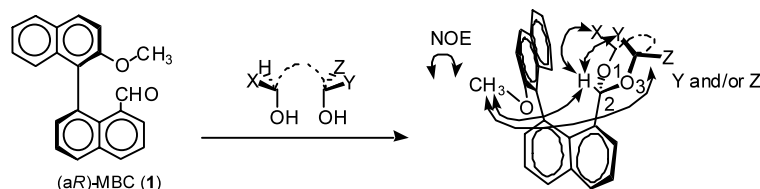


NMR determination of the absolute configuration of chiral 1,2-and 1,3-diols

Tetrahedron Letters 44 (2003) 4063

Hiroki Fukui, Yukiharu Fukushi* and Satoshi Tahara

Graduate School of Agriculture, Hokkaido University, Kita-Ku, 060-8589 Sapporo, Hokkaido, Japan

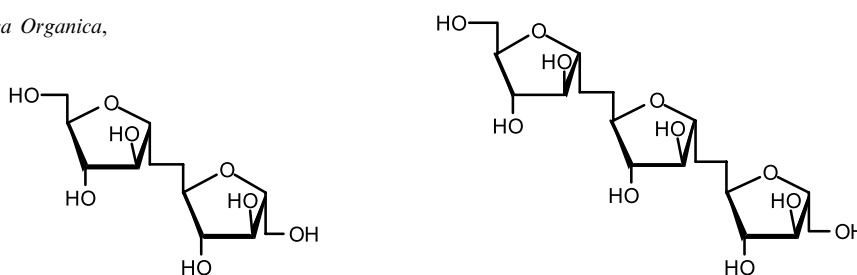


A new synthetic approach to mycobacterial cell wall α -(1 \rightarrow 5)-D-arabinofuranosyl C-oligosaccharides

Tetrahedron Letters 44 (2003) 4067

Alessandro Dondoni* and Alberto Marra*

*Dipartimento di Chimica, Laboratorio di Chimica Organica,
Università di Ferrara, Via L. Borsari 46,
I-44100 Ferrara, Italy*



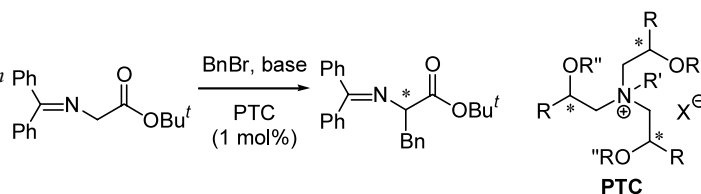
Enantioselective alkylation using a new C_3 symmetric amine-based chiral phase-transfer catalyst

Tetrahedron Letters 44 (2003) 4073

Nobuyuki Mase, Takahiro Ohno, Naoki Hoshikawa, Kazuhiro Ohishi, Hironao Morimoto, Hidemi Yoda and Kunihiko Takabe*

*Department of Molecular Science, Faculty of Engineering,
Shizuoka University, 3-5-1 Johoku, Hamamatsu 432-8561, Japan*

Alkylation of Schiff base under mild phase-transfer conditions using the chiral PTC (1 mol%) provided the product with up to 58% enantiomeric excess.

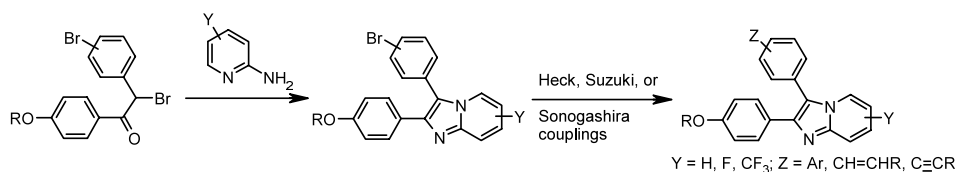


New synthetic approaches to estrogen receptor modulators: imidazo[1,2-a]pyridines

Tetrahedron Letters 44 (2003) 4077

Hari S. Patel, James A. Linn, David H. Drewry, Daniel A. Hillesheim, William J. Zuercher and William J. Hoekstra*

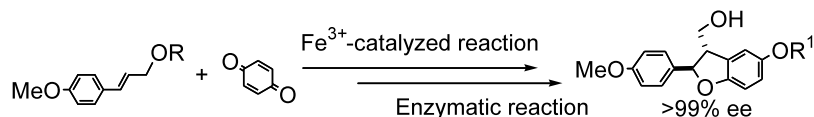
Discovery Research Chemistry, GlaxoSmithKline, Research Triangle Park, NC 27709-3398, USA



Synthesis of optically active 2,3-dihydrobenzofuran derivatives through a combination strategy of iron(III)-catalyzed reaction and enzymatic reaction

Toshiyuki Itoh,* Kimio Kawai, Shuichi Hayase and Hiroyuki Ohara

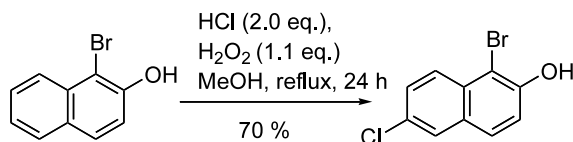
Department of Materials Science, Faculty of Engineering, Tottori University, Tottori 680-8552, Japan



Environmentally benign chlorination and bromination of aromatic amines, hydrocarbons and naphthols

Punita V. Vyas, Anjani K. Bhatt, Gadde Ramachandraiah and Ashutosh V. Bedekar*

Central Salt and Marine Chemicals Research Institute, G.B. Road, Bhavnagar 364002, India

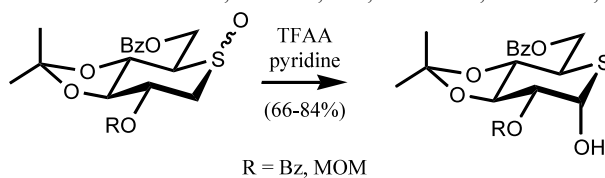


Pummerer rearrangement of 1-deoxy-5-thioglucopyranose oxides; novel synthesis of 5-thioglucopyranose derivatives

Hiroko Matsuda,^a Junji Fujita,^a Yasuharu Morii,^a Masaru Hashimoto,^{a,*} Toshikatsu Okuno^a and Kimiko Hashimoto^b

^aFaculty of Agriculture and Life Science, Hirosaki University, 3 Bunkyo-Cho, Hirosaki, Aomori 036-8561, Japan

^bBiochemical Resources Laboratory, Plant Science Center, RIKEN, 2-1, Hirosawa, Wako-shi, Saitama, 351-0198, Japan

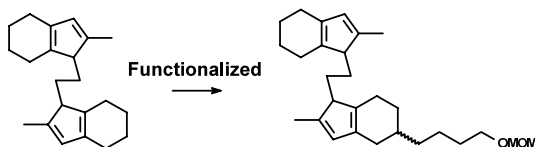


Synthesis of a novel ethylene-bis(tetrahydroindenyl) ligand containing a functionalized four-carbon tether

Anthony P. Panarello and Johannes G. Khinast*

Department of Chemical and Biochemical Engineering, 98 Brett Road, Piscataway, NJ 08854, USA

Functionalized ethylene-bis(2-methyl-tetrahydroindenyl) ligand.



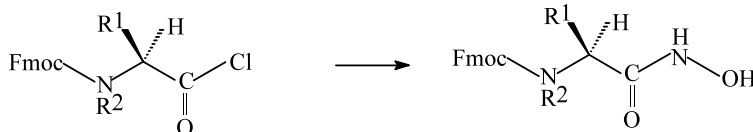
Direct synthesis of Fmoc protected amino acid hydroxamates from acid chlorides mediated by magnesium oxide

Tetrahedron Letters 44 (2003) 4099

Ganga-Ramu Vasanthakumar and Vommina V. Suresh Babu*

Department of Studies in Chemistry, Central College Campus, Dr. B. R. Ambedkar Veedhi, Bangalore University, Bangalore 560 001, India

A simple and efficient synthesis of Fmoc protected amino acid hydroxamates using Fmoc-amino acid chlorides and magnesium oxide is described.



A synthetic tripeptide as a novel organo-gelator: a structural investigation

Tetrahedron Letters 44 (2003) 4103

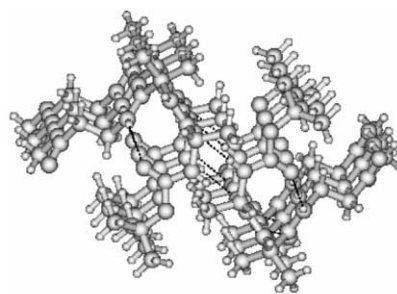
Samir Kumar Maji,^a Sudip Malik,^b Michael G. B. Drew,^c

Arun K. Nandi^{b,*} and Arindam Banerjee^{a,*}

^a*Department of Biological Chemistry, Indian Association for the Cultivation of Science, Jadavpur, Kolkata 700032, India*

^b*Polymer Science Unit, Indian Association for the Cultivation of Science, Jadavpur, Kolkata 700032, India*

^c*Department of Chemistry, The University of Reading, Whiteknights, Reading RG6 6AD, UK*

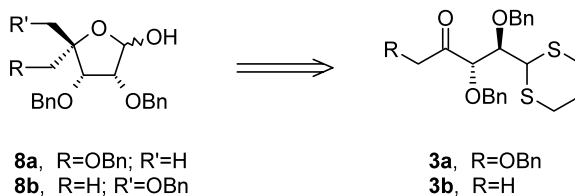


Stereoselective synthesis of 4-C-methyl-2,3,5-tri-O-benzyl-D-ribofuranose and 4-C-methyl-2,3,5-tri-O-benzyl-L-lyxofuranose

Tetrahedron Letters 44 (2003) 4109

Serge H. Boyer,* Bheemarao G. Ugarkar and Mark D. Erion

Chemistry Department, Metabasis Therapeutics, Inc., 9390 Towne Centre Dr., San Diego, CA 92121, USA

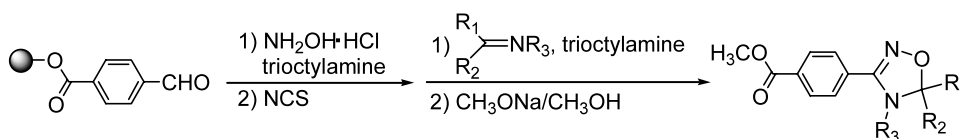


Parallel synthesis of 4,5-dihydro-1,2,4-oxadiazoles using soluble polymer support

Tetrahedron Letters 44 (2003) 4113

Xu-Feng Lin, Jian Zhang and Yan-Guang Wang*

Department of Chemistry, Zhejiang University, Hangzhou 310027, PR China

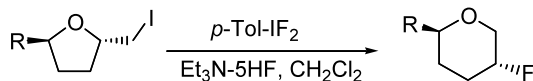


Fluorinative ring-expansion of cyclic ethers using *p*-iodotoluene difluoride. Stereoselective synthesis of fluoro cyclic ethers

Tetrahedron Letters 44 (2003) 4117

Tomotake Inagaki, Yutaka Nakamura, Masanori Sawaguchi, Norihiko Yoneda, Shinichi Ayuba and Shoji Hara*

Division of Molecular Chemistry, Graduate School of Engineering, Hokkaido University, Sapporo 060-8628, Japan

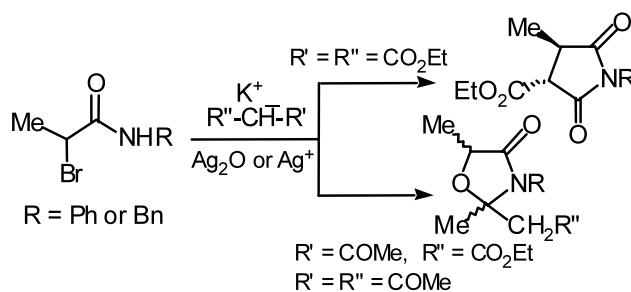


Reactions of 2-bromopropanamides with conjugated bases of representative β -dicarbonyl compounds. Synthesis of 2,5-dioxopyrrolidines and oxazolidine-4-ones

Tetrahedron Letters 44 (2003) 4121

Paolo Marchetti

Dipartimento di Scienze Farmaceutiche, Via Fossato di Mortara 19, I-44100 Ferrara, Italy



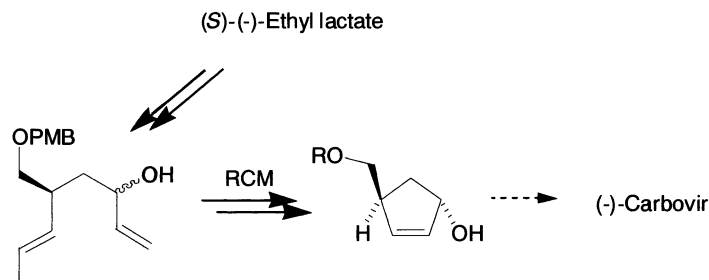
Enantioselective synthesis of the carbocyclic moiety of (-)-carbovir

Tetrahedron Letters 44 (2003) 4125

Emmanuel Roulland, Claude Monneret and Jean-Claude Florent*

UMR 176 CNRS-Institut Curie, Section Recherche, 26 rue d'Ulm, 75248 Paris Cedex 05, France

An application of the ring closure metathesis reaction (RCM) to the enantioselective construction of a cyclopentenol precursor of carbovir is described.

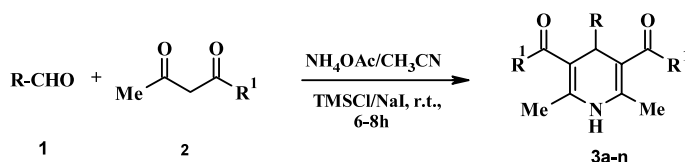


A novel TMSI-mediated synthesis of Hantzsch 1,4-dihydropyridines at ambient temperature

Tetrahedron Letters 44 (2003) 4129

Gowravaram Sabitha,* G. S. Kiran Kumar Reddy, Ch. Srinivas Reddy and J. S. Yadav

Organic Chemical Sciences, Indian Institute of Chemical Technology, Hyderabad 500 007, India

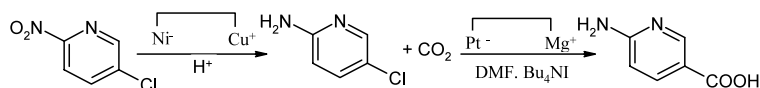


Electroorganic synthesis of 6-aminonicotinic acid from 2-amino-5-chloropyridine

Tetrahedron Letters 44 (2003) 4133

R. Ramesh Raju, S. Krishna Mohan and S. Jayarama Reddy*

Electrochemical Research Laboratories, Department of Chemistry, Sri Venkateswara University, Tirupati 517502, India



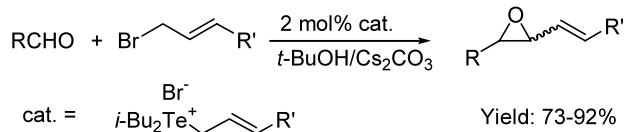
An efficient catalytic ylide route to vinyl epoxides

Tetrahedron Letters 44 (2003) 4137

Kai Li, Zheng-Zheng Huang and Yong Tang*

State Key Laboratory of Organometallic Chemistry, Shanghai Institute of Organic Chemistry, 354 Fenglin Lu, Shanghai 200032, China

The ylide epoxidation of aldehydes catalyzed by telluronium salts provides a simple and extremely efficient route to vinyl epoxides in excellent yields.



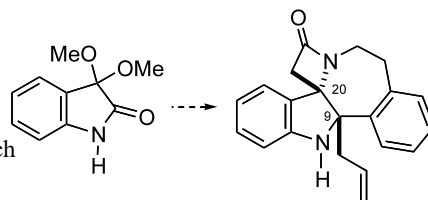
Preliminary feasibility studies on total synthesis of the unusual marine bryozoan alkaloids chartellamide A and B

Tetrahedron Letters 44 (2003) 4141

Joanne L. Pinder and Steven M. Weinreb*

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

A strategy for synthesis of the chartellamide marine alkaloids has been tested in a model leading to the polycyclic ring system of the natural product, but which unfortunately does not provide the requisite C-9,20 relative stereochemistry.

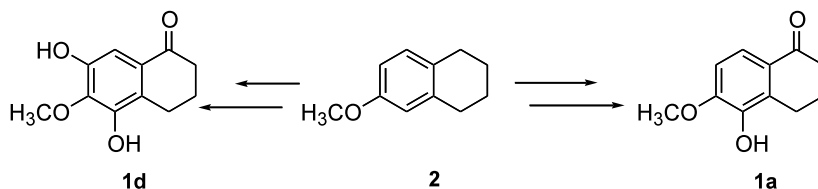


Synthesis of methoxy and hydroxy containing tetralones: versatile intermediates for the preparation of biologically relevant molecules

Tetrahedron Letters 44 (2003) 4145

Anjan Ghatak, James M. Dorsey, Charles M. Garner and Kevin G. Pinney*

Department of Chemistry and Biochemistry, and The Center for Drug Discovery, Baylor University, PO Box 97348, Waco, TX 76798-7348, USA



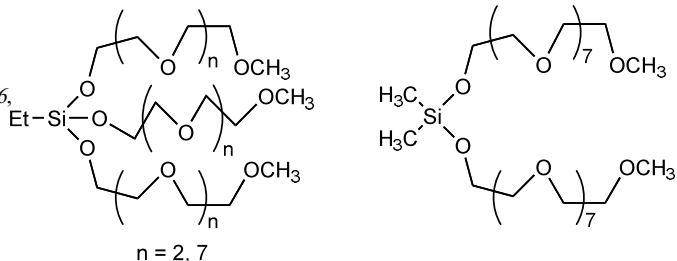
Silicon polypodands: powerful metal cation complexing agents and solid–liquid phase-transfer catalysts of new generation

Tetrahedron Letters 44 (2003) 4149

Angelamaria Maia,^{a,*} Dario Landini,^a Boguslawa Leska^b and Grzegorz Schroeder^b

^a*Istituto di Scienze e Tecnologie Molecolari (ISTM) del CNR and Dipartimento di Chimica Organica e Industriale dell'Università, Via C. Golgi 19, I-20133 Milano, Italy*

^b*Faculty of Chemistry, Adam Mickiewicz University, Grunwaldzka 6, 60-780 Poznan, Poland*



Versatile solid-phase synthesis of secondary amines from alcohols. Development of an *N*-Boc-(*o*-nitrobenzene)sulfonamide linker

Tetrahedron Letters 44 (2003) 4153

Miles S. Congreve,^a Corinne Kay,^{a,*} Jan J. Scicinski,^a Steven V. Ley,^b Geoffrey Williams,^c Peter J. Murray,^c Stephen C. McKeown^d and Stephen P. Watson^d

^a*GlaxoSmithKline, Cambridge Chemistry Laboratory, Lensfield Road, Cambridge CB2 1EW, UK*

^b*Department of Chemistry, Lensfield Road, Cambridge CB2 1EW, UK*

^c*OSI Pharmaceuticals, Watlington Road, Cowley, Oxfordshire OX4 6LT, UK*

^d*GlaxoSmithKline, Gunnels Wood Road, Stevenage, Hertfordshire SG1 2NY, UK*

