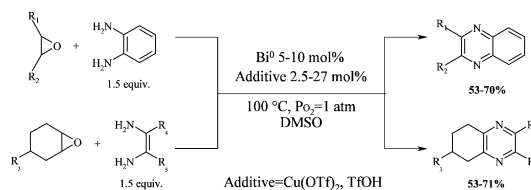
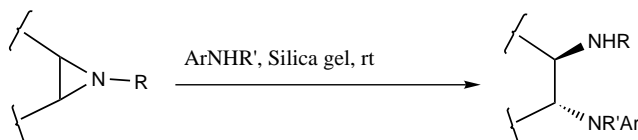


Direct and catalytic synthesis of quinoxaline derivatives from epoxides and ene-1,2-diamines*Tetrahedron Letters 43 (2002) 3971*Sylvain Antoniotti^a and Elisabet Duñach^{b,*}^aLaboratoire Arômes, Synthèses et Interactions, UMR CNRS 6001, Université de Nice-Sophia Antipolis, Faculté des Sciences, Parc Valrose 06108, Nice cedex 2, France^bLaboratoire de Chimie Bio-Organique, UMR CNRS 6001, Université de Nice-Sophia Antipolis, Faculté des Sciences, Parc Valrose 06108, Nice cedex 2, France**Silica gel induced cleavage of aziridines by aromatic amines under solvent free conditions***Tetrahedron Letters 43 (2002) 3975*

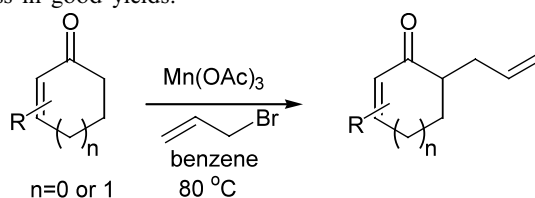
R. Vijaya Anand, Ghanshyam Pandey and Vinod K. Singh*

Department of Chemistry, Indian Institute of Technology, Kanpur 208 016, India

**Mn(III)-mediated radical C–C bond formation: regioselective α' -allylation of α,β -unsaturated ketones***Tetrahedron Letters 43 (2002) 3977*

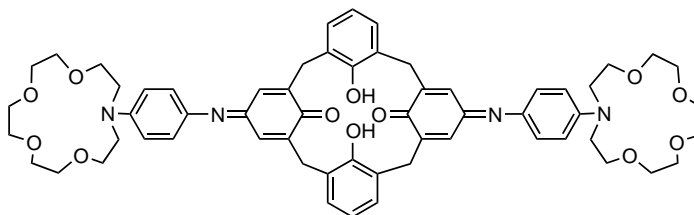
Cihangir Tanyeli* and Devrim Özdemirhan

Department of Chemistry, Middle East Technical University, 06531 Ankara, Turkey

 $\text{Mn}(\text{OAc})_3$ -mediated regioselective α' -allylation of α,β -unsaturated enones is described. α' -Allyl α,β -unsaturated enones are obtained through a radical process in good yields.**Selective chromogenic response via regioselective binding of cations: a novel approach in chemosensor design***Tetrahedron Letters 43 (2002) 3981*

Demet Ataman and Engin U. Akkaya*

Department of Chemistry, Middle East Technical University, TR 06531 Ankara, Turkey



A simple synthesis of 2-substituted oxazolines and oxazines

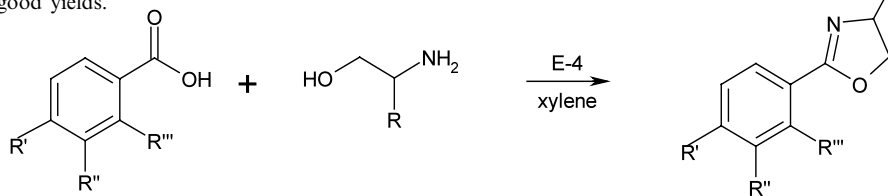
Tetrahedron Letters 43 (2002) 3985

Agnieszka Cwik,^a Zoltán Hell,^{a,*} Adrienn Hegedüs,^a Zoltán Finta^a and Zoltán Horváth^b

^aDepartment of Organic Chemical Technology, Budapest University of Technology and Economics, Budapest H-1521, Hungary

^bErdőkémia-ker Ltd, Gyömrői út 132-136, Budapest H-1108, Hungary

β -Aminoalcohols react with carboxylic acids in the presence of a zeolite, Ersorb-4 (E-4), resulting in the formation of oxazoline derivatives in good yields.

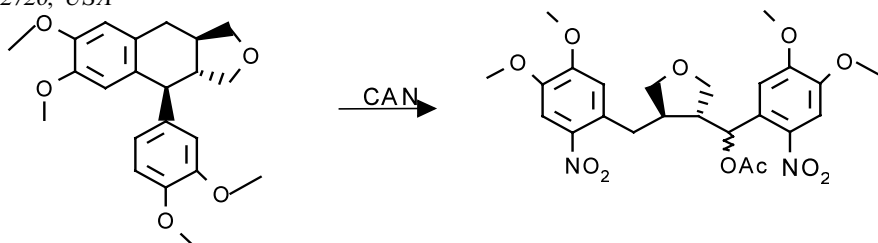


Structural requirements for *ipso*-nitration with cerium(IV) ammonium nitrate (CAN)

Tetrahedron Letters 43 (2002) 3989

H. Asghedom, R.T. LaLonde* and F. Ramdayal

Department of Chemistry, State University of New York, College of Environmental Science and Forestry (SUNY-ESF), Syracuse, NY 13210-2726, USA

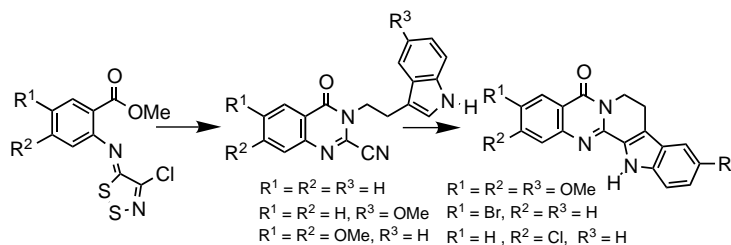


A short synthesis of quinazolinocarboline alkaloids rutaecarpine, hortiaccine, euxylophoricine A and euxylophoricine D from methyl *N*-(4-chloro-5*H*-1,2,3-dithiazol-5-ylidene)anthranilates

Tetrahedron Letters 43 (2002) 3993

Pramod K. Mohanta and Kyongtae Kim*

School of Chemistry and Molecular Engineering, Seoul National University, Seoul 151-742, South Korea



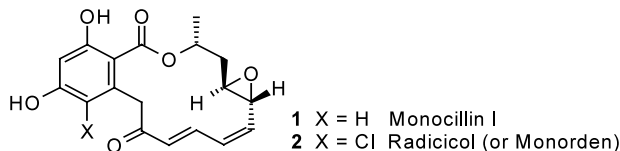
Convergent stereospecific total synthesis of monocillin I and radicicol: some simplifications and improvements

Tetrahedron Letters 43 (2002) 3997

Isabelle Tichkowsky and Robert Lett*

Unité Mixte CNRS-AVENTIS Pharma (UMR 26), 102, route de Noisy, 93235 Romainville, France

The stereospecific formation of the key-intermediate macrolide having the desired conjugated *E,Z*-dienone *trans*-epoxide has been achieved in a much higher yield, via a modification of our first synthesis. The configuration at 6' of the intermediates is also shown to have no significant incidence on all the steps of the sequence.



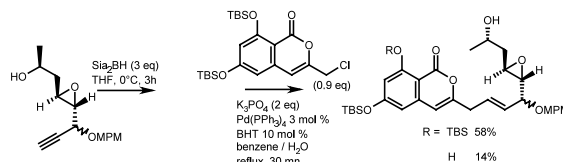
Improvements of the total synthesis of monocillin I and radicicol via Miyaura–Suzuki couplings

Tetrahedron Letters 43 (2002) 4003

Isabelle Tichkowsky and Robert Lett*

Unité Mixte CNRS-AVENTIS Pharma (UMR 26), 102, route de Noisy, 93235 Romainville, France

The palladium-catalyzed coupling of the vinyl-disiamylborane, formed in situ, affords two isocoumarins (R = TBS, H), which can be used for the synthesis of radicicol in 72% global overall yield from the alkyne. Advantages over related vinylboron or vinyltin couplings are discussed.



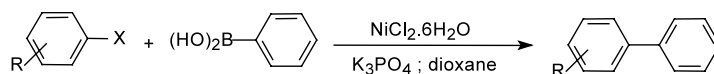
Suzuki cross-coupling of aryl halides with aryl boronic acids catalyzed by phosphine-free $\text{NiCl}_2 \cdot 6\text{H}_2\text{O}$

Tetrahedron Letters 43 (2002) 4009

Danilo Zim and Adriano L. Monteiro*

Laboratory of Molecular Catalysis, Instituto de Química, UFRGS, Av. Bento Gonçalves, 9500 Porto Alegre 91501-970 CP 15003 RS, Brazil

$\text{NiCl}_2 \cdot 6\text{H}_2\text{O}$, without any auxiliary ligand or reducing agent, is an active and simple catalyst precursor for the Suzuki cross-coupling reaction of aryl bromides and iodides.



Chemo-, regio- and stereoselective Mitsunobu reaction of unprotected pyrimidine bases with hydroxypyrrolidines

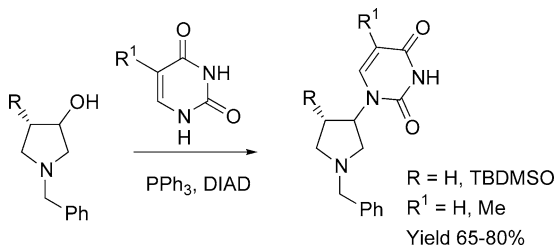
Tetrahedron Letters 43 (2002) 4013

Barbara Richichi,^b Stefano Cicchi,^a Ugo Chiacchio,^c Giovanni Romeo^{b,*} and Alberto Brandi^{a,*}

^aDipartimento di Chimica Organica "Ugo Schiff", Università di Firenze, Polo Scientifico, Via della Lastruccia 13, I-50019 Sesto Fiorentino, Florence, Italy

^bDipartimento Farmaco-Chimico, Università di Messina, Viale Annunziata, Messina I-98100, Italy

^cDipartimento di Scienze Chimiche, Università di Catania, Viale A. Doria 6, Catania I-95125, Italy



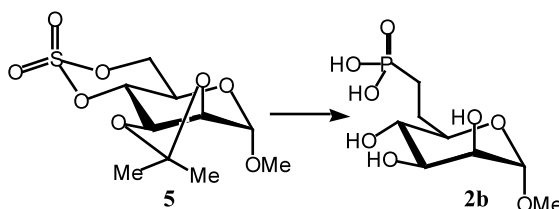
Synthesis of mannose-6-phosphate analogs: large-scale preparation of isosteric mannose-6-phosphonate via cyclic sulfate precursor

Tetrahedron Letters 43 (2002) 4017

Nikolai A. Khanjin and Jean-Louis Montero*

Laboratoire de Chimie Biomoléculaire, UM2, ENSCM, 8 Rue de l'Ecole Normale, 34296 Montpellier Cedex 5, France

A concise and efficient synthesis of the isosteric mannose-6-phosphonate **2b** is presented via cyclic sulfate **5**.



Synthesis of 1'- β -D-glucopyranosyl-1,2,3-triazole-4,5-dimethanol-4,5-bis(isopropylcarbamate) as potential antineoplastic agent

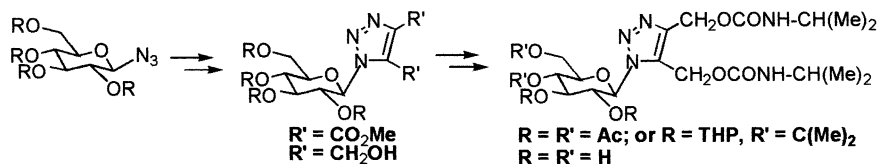
Tetrahedron Letters 43 (2002) 4021

Najim A. Al-Masoudi^{a,*} and Yaseen A. Al-Soud^b

^aFakultät für Chemie, Universität Konstanz, Postfach 5560, D-78457 Konstanz, Germany

^bDepartment of Chemistry, College of Science, University of Al al-Bayt, Al-Mafraq, Jordan

The title compound was prepared from β -D-azidoglucose via two different routes with diverse yields.

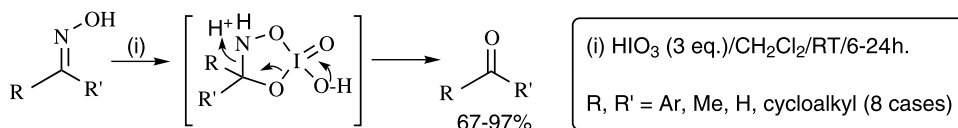


Effective 'non-aqueous hydrolysis' of oximes with iodic acid in dichloromethane under mild, heterogeneous conditions

Tetrahedron Letters 43 (2002) 4023

Sosale Chandrasekhar* and Kovuru Gopalaiah

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



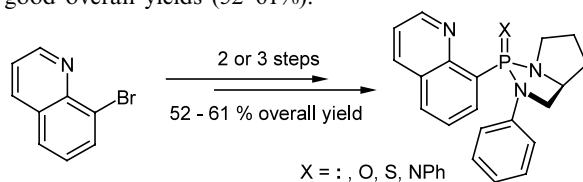
Totally diastereoselective synthesis of a new chiral quinoline diazaphospholidine ligand and its derivatives

Tetrahedron Letters 43 (2002) 4025

Guillaume Delapierre, Mathieu Achard and Gérard Buono*

ENSSPICAM, UMR 6516 'Synthèse, Catalyse et Chiralité', Av. Escadrille Normandie Niemen, F-13397 Marseille Cedex 20, France

A totally diastereoselective synthesis afforded a new chiral P,N ligand and its derivatives, respectively, in two or three steps from 8-bromoquinoline in good overall yields (52–61%).



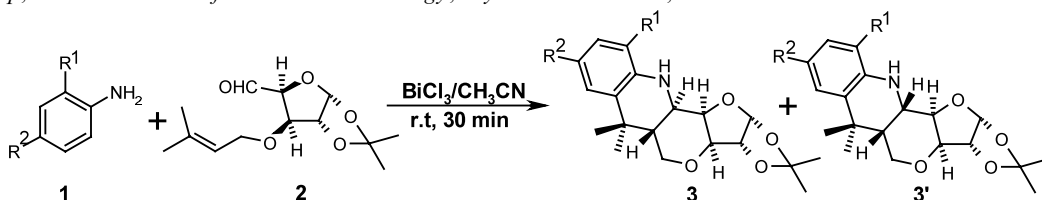
Stereoselective synthesis of octahydro-3bH-[1,3]dioxolo[4'',5'':4',5']-furo[2',3':5,6]pyrano[4,3-b]quinolines via intramolecular hetero-Diels-Alder reactions catalyzed by bismuth(III) chloride

Tetrahedron Letters 43 (2002) 4029

Gowravaram Sabitha,^{a,*} E. Venkata Reddy,^a J. S. Yadav,^a K. V. S. Rama Krishna^b and A. Ravi Sankar^b

^aOrganic Division I, Indian Institute of Chemical Technology, Hyderabad 500 007, India

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

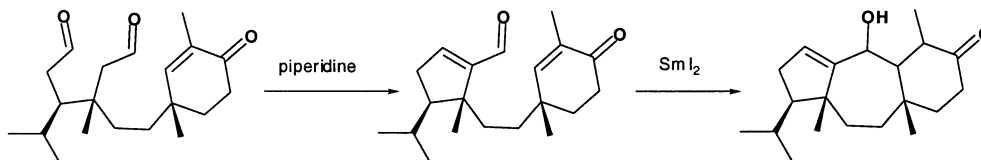


**Progress towards the total synthesis of guanacastepene A.
Approaches to the construction of quaternary carbons and the
5-7-6 tricyclic carbon skeleton**

Tetrahedron Letters 43 (2002) 4033

Truc M. Nguyen and Daesung Lee*

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

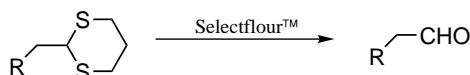


**An efficient method for the cleavage of *p*-methoxybenzylidene
(PMP), tetrahydropyranyl (THP) and 1,3-dithiane protecting
groups by Selectfluor™**

Tetrahedron Letters 43 (2002) 4037

Junjie Liu and Chi-Huey Wong*

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

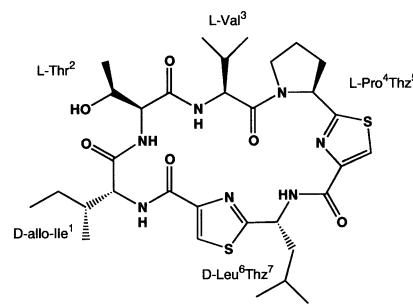


**Structure and total synthesis of cyclodidemnamide B, a
cycloheptapeptide from the ascidian *Didemnum molle***

Tetrahedron Letters 43 (2002) 4041

Axelle Arrault, Anne Witzak-Legrand, Philippe Gonzalez,
Nataly Bontemps-Subielos and Bernard Banaigs*

*Centre de Phytopharmacie, UMR5054 CNRS, Université de Perpignan,
66860 Perpignan, France*

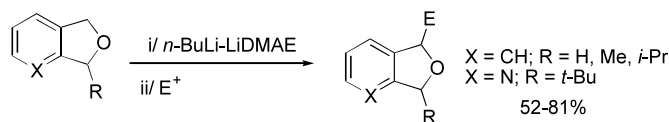


**A new method for benzylic deprotonative lithiation: synthesis of
1- and 1,3-disubstituted (aza)phthalans**

Tetrahedron Letters 43 (2002) 4045

Yves Fort,* Philippe Gros and Alain L. Rodriguez

*Synthèse Organique et Réactivité, UMR CNRS-UHP 7565, Université Henri Poincaré-Nancy I, BP 239,
54506 Vandoeuvre-Lès-Nancy, France*



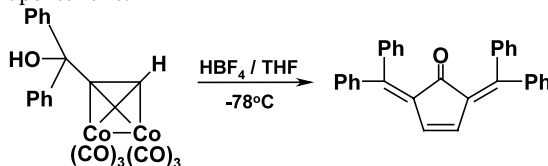
2,5-Bis(diphenylmethylene)-3-cyclopentenone: a solvent-dependent cobalt cluster mediated propargyl radical coupling process

Tetrahedron Letters 43 (2002) 4049

John H. Kaldis and Michael J. McGlinchey*

Department of Chemistry, McMaster University, Hamilton, Ontario, Canada L8S 4M1

Protonation of (1,1-diphenyl-2-propyn-1-ol)Co₂(CO)₆ with HBF₄ in THF affords the radical (Co₂(CO)₆)[HC≡C-CPh₂•], which dimerizes at the methyne position; subsequent cyclization and carbonylation yields 2,5-bis-(diphenylmethylene)-3-cyclopentenone.

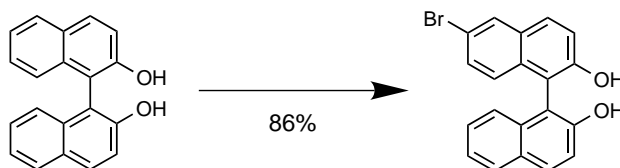


Efficient synthesis of 6-mono-bromo-1,1'-bi-2-naphthol

Tetrahedron Letters 43 (2002) 4055

Dongwei Cai,* Robert D. Larsen and Paul J. Reider

Department of Process Research, Merck Research Laboratories, PO Box 2000, Rahway, NJ 07065, USA



Solid-phase synthesis of functionalized 1,2,3-triazoles

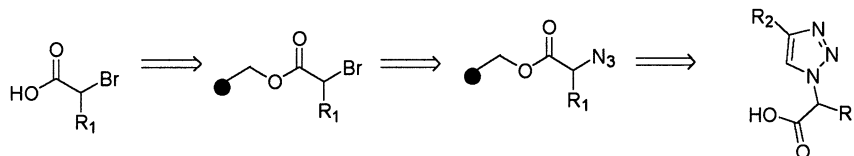
Tetrahedron Letters 43 (2002) 4059

Benjamin E. Blass,* Keith R. Coburn, Amy L. Faulkner, Cheryl L. Hunn,

Michael G. Natchus, M. Sharon Parker, David E. Portlock, Joshua S. Tullis and Richard Wood

Procter and Gamble Pharmaceuticals, Health Care Research Center, 8700 Mason Montgomery Road, Mason, OH 45040, USA

Functionalized 1,2,3-triazoles are prepared by 2+3 cycloaddition of resin bound α -azido esters with substituted alkynes. The reaction is regioselective when the electron-deficient alkyne methyl propiolate is used.

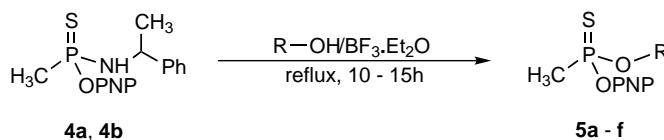


Synthesis of chiral 4-nitrophenyl alkyl methylphosphonothioates: BF₃·Et₂O-catalyzed alcoholysis of phosphoramidothioates

Tetrahedron Letters 43 (2002) 4063

Putta Mallikarjuna Reddy and Ildiko M. Kovach*

Department of Chemistry, The Catholic University of America, Washington, DC 20064, USA



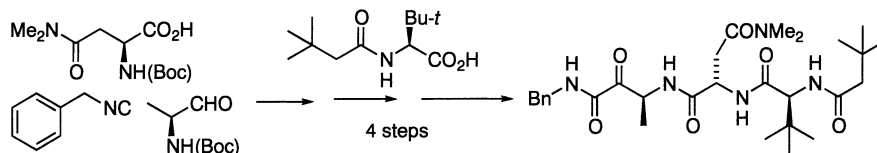
Short synthesis of protease inhibitors via modified Passerini condensation of *N*-Boc- α -aminoaldehydes

Tetrahedron Letters 43 (2002) 4067

Luca Banfi,* Giuseppe Guanti,* Renata Riva, Andrea Basso and Emiliano Calcagno

Dipartimento di Chimica e Chimica Industriale, via Dodecaneso 31, I-16146 Genoa, Italy

A straightforward entry into α -hydroxyamide or α -oxoamide protease inhibitors has been realised by modified Passerini condensation of *N*-Boc- α -aminoaldehydes.



New heterocyclic selenenamides: 1,2,4-benzoselenadiazin-3(4*H*)-ones and 1,3,2-benzodiselenazoles

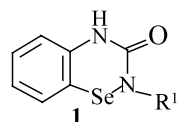
Tetrahedron Letters 43 (2002) 4071

Krystian Kloc, Jacek Młochowski,* Karol Osajda, Ludwik Syper and Halina Wójtowicz

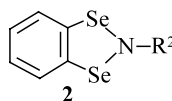
Institute of Organic Chemistry, Biochemistry and Biotechnology, Wrocław University of Technology,

Wyb. Wyspiańskiego 27, 50-370 Wrocław, Poland

The syntheses of the hitherto unknown selenium and nitrogen containing ring systems **1** and **2** are described.



R¹ = Pr, Bu, *c*-Hex



R² = Pr, Bu, *i*-Bu, *t*-Bu, *sec*-Bu

Dry reaction of indoles with carbonyl compounds on Montmorillonite K10 clay: a mild, expedient synthesis of diindolylalkanes and vibrindole A

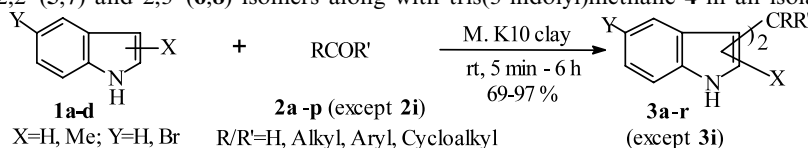
Tetrahedron Letters 43 (2002) 4075

Manas Chakrabarty,^{a,*} Nandita Ghosh,^a Ramkrishna Basak^a and Yoshihiro Harigaya^b

^aDepartment of Chemistry, Bose Institute, 93/1, APC Road, Kolkata 700009, India

^bSchool of Pharmaceutical Sciences, Kitasato University, Minato-ku, Tokyo 108, Japan

Dry reaction of indoles **1a-d** with carbonyl compounds **2a-p** on clay furnished vibrindole A **3a**, other 3,3'-diindolylalkanes **3b-h**, **j-r**, their 2,2'-(**5,7**) and 2,3'-(**6,8**) isomers along with tris(3-indolyl)methane **4** in an isolated case.

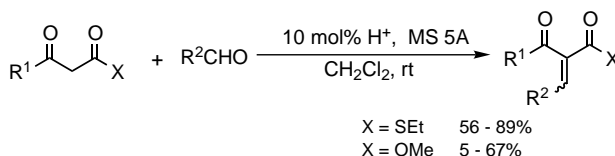


β -Ketothioester as a reactive Knoevenagel donor

Tetrahedron Letters 43 (2002) 4079

Yujiro Hayashi,* Yuji Miyamoto and Mitsuru Shoji

Department of Industrial Chemistry, Faculty of Engineering, Science University of Tokyo, Kagurazaka, Shinjuku-ku, Tokyo 162-8601, Japan

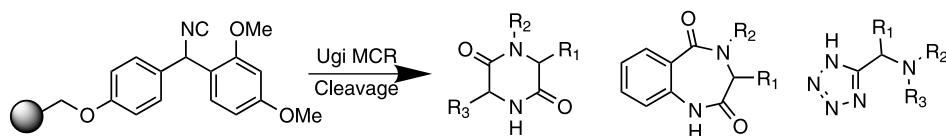


The Universal Rink-isonitrile resin: applications in Ugi reactions

Tetrahedron Letters 43 (2002) 4083

Jack J. Chen,* Adam Golebiowski, Sean R. Klopfenstein and Laura West

Combinatorial Chemistry Group, Procter and Gamble Pharmaceuticals, 8700 Mason-Montgomery Road, Mason, OH 45040, USA



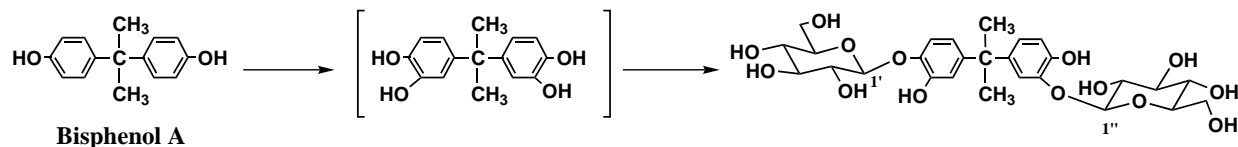
Phytoremediation of bisphenol A by cultured suspension cells of *Eucalyptus perriniana*-regioselective hydroxylation and glycosylation

Tetrahedron Letters 43 (2002) 4087

Hiroki Hamada,^{a,*} Ryotoku Tomi,^a Yoshihisa Asada^b and Tsutomu Furuya^a

^aDepartment of Applied Science, Okayama University of Science, 1-1 Ridai-cho, Okayama 700-0005, Japan

^bSchool of Pharmaceutical Sciences, Kitasato University, Shirokane, Minato-ku, Tokyo 108-8641, Japan



Efficient and clean synthesis of *N*-alkyl carbamates by transcarboxylation and *O*-alkylation coupled reactions using a DBU-CO₂ zwitterionic carbamic complex in aprotic polar media

Tetrahedron Letters 43 (2002) 4091

Eduardo R. Pérez, Michele Odnicki da Silva, Vanessa C. Costa, Ubirajara P. Rodrigues-Filho and Douglas W. Franco*

Instituto de Química de São Carlos, Cx. P. 780 CEP 13560-970, Universidade de São Paulo, São Paulo, Brazil



Toward the total synthesis of pseudolaric acid B. Preparation of a key intermediate by degradation and its use in the reassembly of the natural product

Tetrahedron Letters 43 (2002) 4095

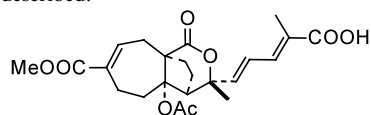
Baogen Wu,^a Jean M. Karle,^c E. Blake Watkins^a and Mitchell A. Avery^{a,b,*}

^aDepartment of Medicinal Chemistry National Center for Natural Products Research, School of Pharmacy, University of Mississippi, PO Box 1848, University, MS 38677-1848, USA

^bDepartment of Chemistry, University of Mississippi, PO Box 1848, University, MS 38677-1848, USA

^cDivision of Experimental Therapeutics, Department of Medicinal Chemistry, Walter Reed Army Institute of Research, Silver Spring MD, UK

A partial relay synthesis of pseudolaric acid B is described.



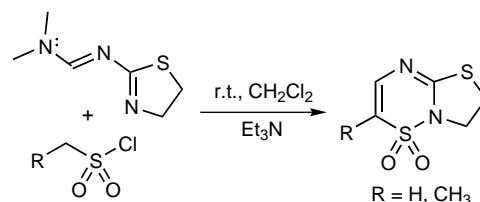
Synthesis of novel 6,7-dihydrothiazolo[3,2-*b*]-1,2,4-thiadiazine 1,1-dioxides

Tetrahedron Letters 43 (2002) 4099

Cyrille Landreau, David Deniaud,* Alain Reliquet and Jean Claude Meslin

*Laboratoire de Synthèse Organique, UMR CNRS 6513,
Faculté des Sciences et des Techniques, 2, Rue de la Houssinière BP 92 208,
F-44322 Nantes Cedex 03, France*

A mild synthesis of 6,7-dihydrothiazolo[3,2-*b*]-1,2,4-thiadiazine 1,1-dioxides involving a thiazolinic diazadiene and sulfonyl chlorides is reported.

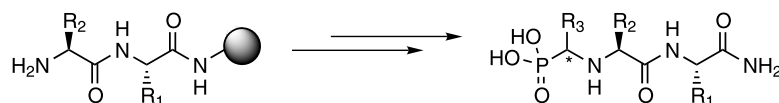


An expedient method for the solid-phase synthesis of α -aminoalkyl phosphonopeptides

Tetrahedron Letters 43 (2002) 4103

Markéta Rinnová, Adel Nefzi and Richard A. Houghten*

Torrey Pines Institute for Molecular Studies, 3550 General Atomics Court, San Diego, CA 92121, USA



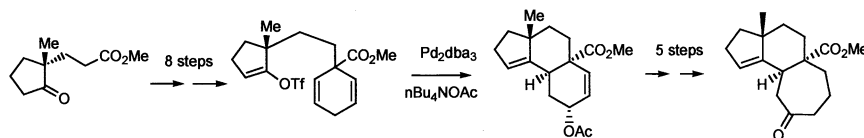
Synthetic studies toward cyathin diterpenoids: approach to the tricyclic system through intramolecular Heck-type cyclization

Tetrahedron Letters 43 (2002) 4107

Cyrille Thominaux,^a Angèle Chiaroni^b and Didier Desmaële^{a,*}

^a*Unité de Chimie Organique Associée au CNRS, Faculté de Pharmacie, 5, rue J.-B. Clément, 92290 Châtenay-Malabry, France*

^b*Institut de Chimie des Substances Naturelles, CNRS, Avenue de la Terrasse, 91198 Gif sur Yvette, France*



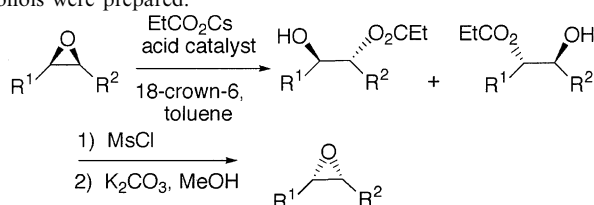
Cesium propionate as an epoxide cleavage and inversion reagent

Tetrahedron Letters 43 (2002) 4111

David O. Arbelo and José A. Prieto*

Department of Chemistry, University of Puerto Rico, Rio Piedras Campus, PO Box 23346, San Juan, Puerto Rico 00931-3346, USA

A new epoxide inversion method, based on cesium propionate as the epoxide-cleaving agent, was developed. A series of inverted epoxides, including 3,4-epoxy alcohols were prepared.

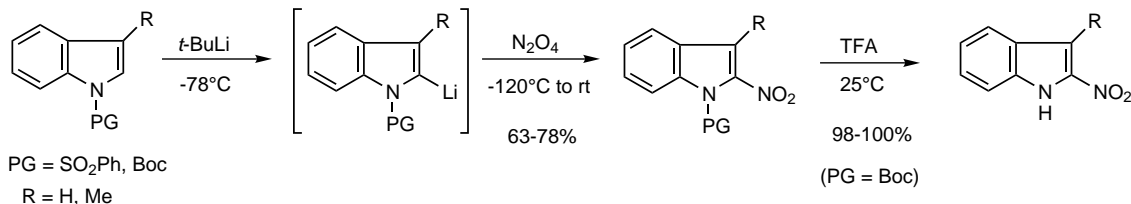


A new synthesis of 2-nitroindoles

Tetrahedron Letters 43 (2002) 4115

Jun Jiang and Gordon W. Gribble*

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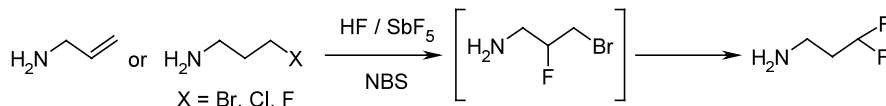


Synthesis of *gem*-difluoroamines from allylic or halogenoamines

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Synthesis of arylhalonium compounds [including (4-methylphenyl) phenylfluoronium] by the nuclear-chemical method

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