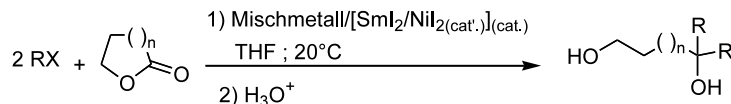


Catalytic Barbier-type reactions of lactones and esters mediated by the Mischmetall/ $\text{SmI}_2(\text{cat.})$ system or the Mischmetall/ $[\text{SmI}_2/\text{NiI}_2(\text{cat.})]_{(\text{cat.})}$ system

Tetrahedron Letters 43 (2002) 8007

Marie-Isabelle Lannou, Florence Hé lion and Jean-Louis Namy*

Laboratoire de Catalyse Moléculaire, associé au CNRS, ICMO, Bat 420, Université Paris-Sud, 91405, Orsay, France

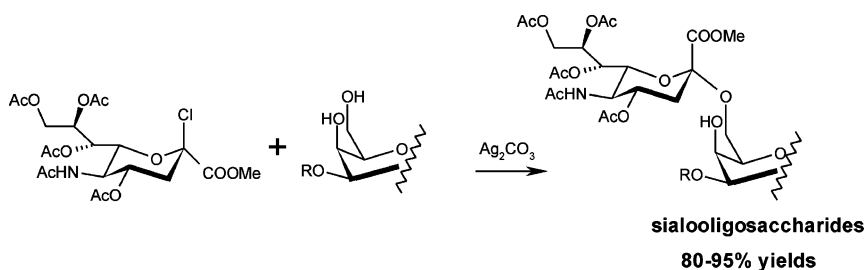


Simple stereoselective synthesis of α -2-6 sialooligosaccharides

Tetrahedron Letters 43 (2002) 8011

Galina Pazynina, Alexander Tuzikov, Alexander Chinarev, Polina Obukhova and Nicolai Bovin*

Shemyakin & Ovchinnikov Institute of Bioorganic Chemistry, 16/10 Miklukho-Maklaya str., Moscow 117997, Russian Federation

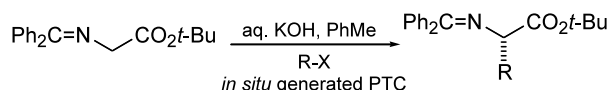


Asymmetric alkylation of glycine imines using in situ generated phase-transfer catalysts

Tetrahedron Letters 43 (2002) 8015

Barry Lygo,^{a,*} Benjamin I. Andrews,^a John Crosby^b and Justine A. Peterson^c^aSchool of Chemistry, University of Nottingham, Nottingham NG7 2RD, UK^bAstraZeneca, Process R&D, Silk Road Business Park, Charter Way, Macclesfield, Cheshire SK10 2NA, UK^cDepartment of Chemistry, University of Salford, Salford M5 4WT, UK

Studies into the asymmetric alkylation of glycine imines utilizing in situ generated quaternary ammonium phase-transfer catalysts are described.

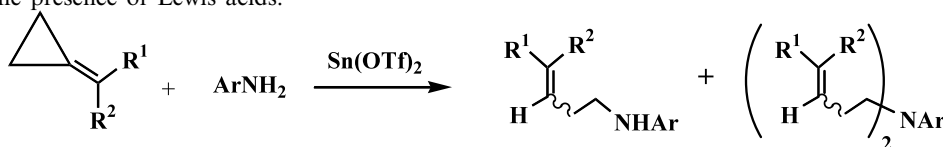


A novel ring-opening reaction of methylenecyclopropanes with aromatic amines catalyzed by Lewis acids

Tetrahedron Letters 43 (2002) 8019

Min Shi,^{a,*} Yu Chen,^b Bo Xu^a and Jie Tang^b^aState Key Laboratory of Organometallic Chemistry, Shanghai Institute of Organic Chemistry, Chinese Academy of Science, 354 Fenglin Lu, Shanghai 200032, China^bDepartment of Chemistry, East China Normal University, 3663 Zhong Shan Bei Lu, Shanghai 200062, China

Methylenecyclopropanes (MCPs) can react with aromatic amines to give the corresponding homoallylic amines in good to high yields in the presence of Lewis acids.



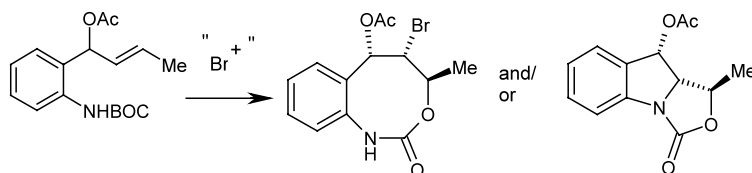
Unexpected highly regioselective macrocyclization of *o*-allylic *N*-carbonyl substituted anilines

Tetrahedron Letters 43 (2002) 8025

Javier Agejas,^a Francisca Delgado,^a Juan J. Vaquero,^a José L. García-Navío^{a,*} and Carlos Lamas^{b,*}

^aDepartamento de Química Orgánica, Universidad de Alcalá, 28871-Alcalá de Henares, Madrid, Spain

^bCentro de Investigación Lilly, S. A., Avenida de la Industria 30, 28108-Alcobendas, Madrid, Spain



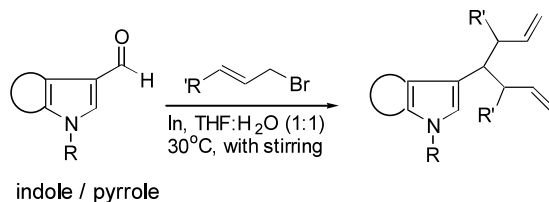
Novel indium-mediated deoxygenative α,α -diallylation of indole- and pyrrole-3-carboxaldehydes

Tetrahedron Letters 43 (2002) 8029

Subodh Kumar,* Vijay Kumar and Swapandeep Singh Chimni

Department of Chemistry, Guru Nanak Dev University, Amritsar 143 005, India

1-Alkylindole- and pyrrole-3-carboxaldehydes undergo indium-mediated deoxygenative diallylation to provide 3-[1,6-diene-4-yl]-indoles and pyrroles.



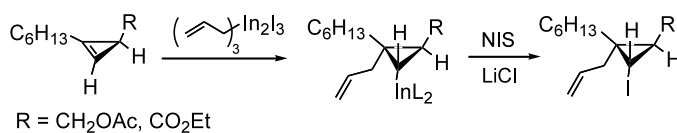
Stereoselective synthesis of halocyclopropanes via halogenation of cyclopropylindium reagents

Tetrahedron Letters 43 (2002) 8033

Shuki Araki,* Ohnishi Kenji, Fumio Shiraki and Tsunehisa Hirashita

Department of Applied Chemistry, Nagoya Institute of Technology, Gokiso-cho, Showa-ku, Nagoya 466-8555, Japan

A stereoselective synthesis of halocyclopropanes has been achieved via halogenation of the cyclopropylindium reagents prepared by allylindation of cyclopropenes.

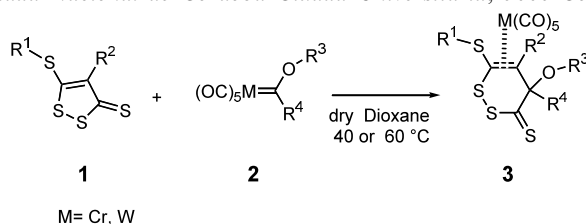


Insertion of Fischer carbene complexes into the carbon-carbon bond. Ring expansion of a sulfur heterocycle from five- to six-membered

Tetrahedron Letters 43 (2002) 8037

Alejandro M. Granados,* Jerónimo Kreiker and Rita H. de Rossi

Instituto de Investigaciones en Físico Química de Córdoba (INFIQC), Departamento de Química Orgánica, Facultad de Ciencias Químicas, Universidad Nacional de Córdoba Ciudad Universitaria, 5000 Córdoba, Argentina

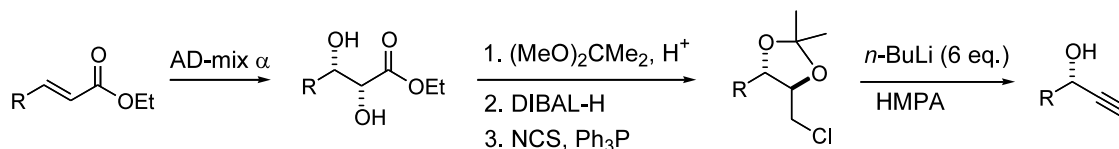


Preparation of chiral propargylic alcohols from α,β -unsaturated esters

Tetrahedron Letters 43 (2002) 8043

Jiong Chun, Hoe-Sup Byun and Robert Bittman*

Department of Chemistry and Biochemistry, Queens College of The City University of New York, Flushing, NY 11367-1597, USA



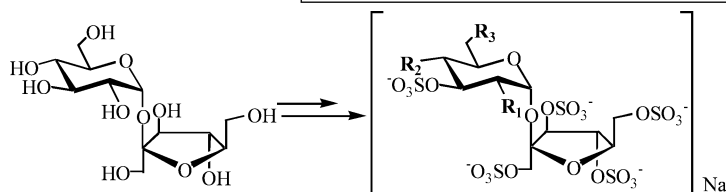
Synthesis of sulfosucrose derivatives for evaluation as regulators of fibroblast growth factor activity

Tetrahedron Letters 43 (2002) 8047

Tülay Polat,^a Moosa Mohammadi^b and Robert J. Linhardt^{a,*}

^aDepartment of Chemistry, Medicinal and Natural Products Chemistry and Chemical and Biochemical Engineering, The University of Iowa, Iowa City, IA 52242, USA

^bDepartment of Pharmacology, New York University School of Medicine, New York, NY 10016, USA



3 $\text{R}_2=\text{R}_3=\text{OSO}_3^-\text{Na}$, $\text{R}_1=\text{OH}$

4 $\text{R}_2=\text{R}_3=\text{OSO}_3^-\text{Na}$, $\text{R}_1=\text{OBn}$

7 $\text{R}_1=\text{OSO}_3^-\text{Na}$, $\text{R}_2=\text{R}_3=\text{OH}$

Convenient access to 1,3,5-triaroylbenzenes

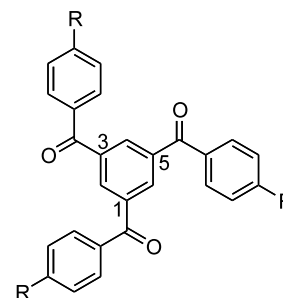
Tetrahedron Letters 43 (2002) 8051

Delphine Joseph,^{a,*} Raphael Jankowski,^a Damien Prim,^b Jacqueline Mahuteau^a and Angèle Chiaroni^c

^aBioCIS ESA 8076, Centre d'Etudes Pharmaceutiques, Université Paris-Sud, 5, rue Jean-Baptiste Clément, F-92296 Châtenay-Malabry Cedex, France

^bLaboratoire SIRCOB, UPRES A CNRS 8086, Bâtiment Lavoisier, Université de Versailles, 45, avenue des Etats-Unis, F-78035 Versailles Cedex, France

^cInstitut de Chimie des Substances Naturelles, CNRS, avenue de la Terrasse, F-91198 Gif-sur-Yvette Cedex, France



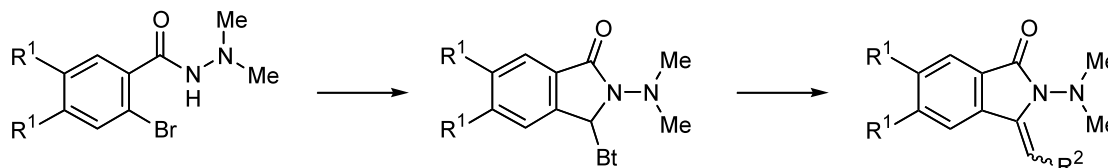
A new and versatile synthetic route to 2-dimethylamino-3-alkyl and arylmethylene-2,3-dihydro-1H-isoindol-1-ones

Tetrahedron Letters 43 (2002) 8055

Eric Deniau^{a,*} and Dieter Enders^b

^aLaboratoire de Chimie Organique Physique, ESA CNRS N° 8009, Université des Sciences et Technologies de Lille, 59655 Villeneuve d'Ascq Cédex, France

^bInstitut für Organische Chemie, Rheinisch-Westfälische Technische Hochschule, Professor-Pirlet-Straße 1, 52074 Aachen, Germany



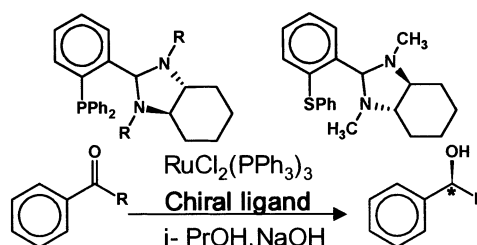
***N,N'*-Dialkylated 1,2-diamine derivatives as new efficient ligands for RuCl₂(PPh₃)₃ catalyzed asymmetric transfer hydrogenation of aromatic ketones**

Tetrahedron Letters 43 (2002) 8059

Geon-Joong Kim,* Sang-Han Kim, Pong-Hyun Chong and Mi-Ae Kwon

Department of Chemical Engineering, Inha University, Incheon 402-751, South Korea

Chiral phosphinoimidazolidines are used as ligands for ruthenium-catalyzed asymmetric transfer hydrogenation of aromatic ketones.



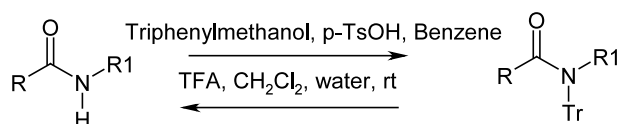
A simple synthetic protocol for the protection of amides, lactams, ureas, and carbamates

Tetrahedron Letters 43 (2002) 8063

Dandu R. Reddy, Mohamed A. Iqbal,* Robert L. Hudkins, Patricia A. Messina-McLaughlin and John P. Mallamo

Cephalon, Inc., 145 Brandywine Parkway, West Chester, PA 19380, USA

An efficient procedure for the protection and deprotection of amide containing functional groups.

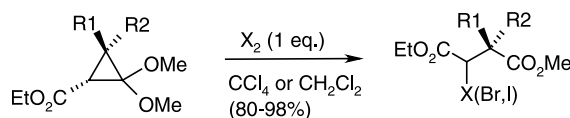


Bromination and iodination of donor-acceptor cyclopropanes. Evidence for an ET mechanism

Tetrahedron Letters 43 (2002) 8067

Vincenzo Piccialli,* M. Liliana Graziano,* M. Rosaria Iesce and Flavio Cermola

Dipartimento di Chimica Organica e Biochimica, Università degli Studi di Napoli 'Federico II', Via Cynthia 4, 80126 Napoli, Italy



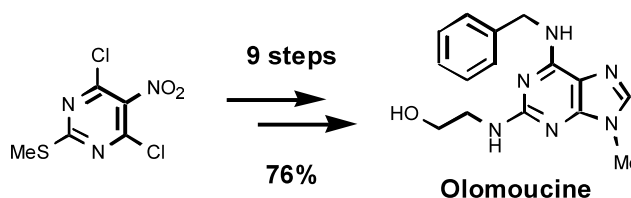
Utility of 4,6-dichloro-2-(methylthio)-5-nitropyrimidine. An efficient solid-phase synthesis of olomoucine

Tetrahedron Letters 43 (2002) 8071

Lars G. J. Hammarström, David B. Smith,* Francisco X. Talamás,* Sharada S. Labadie and Nancy E. Krauss

Roche Bioscience, Inflammatory and Viral Diseases Unit, 3401 Hillview Avenue, Palo Alto, CA 94304-1397, USA

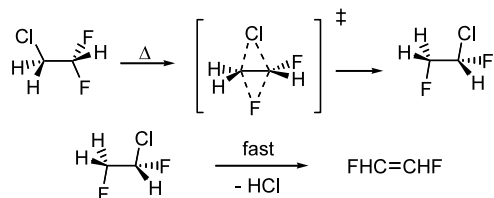
4,6-Dichloro-2-(methylthio)-5-nitropyrimidine has been utilized as the starting material for an efficient solid-phase synthesis of olomoucine. The methodology disclosed is applicable to the synthesis of libraries of fully substituted purines.



**Anomalous elimination of HCl from 2-chloro-1,1-difluoroethane.
Likely involvement of a 1,2-FCI interchange mechanism**

Tetrahedron Letters 43 (2002) 8075

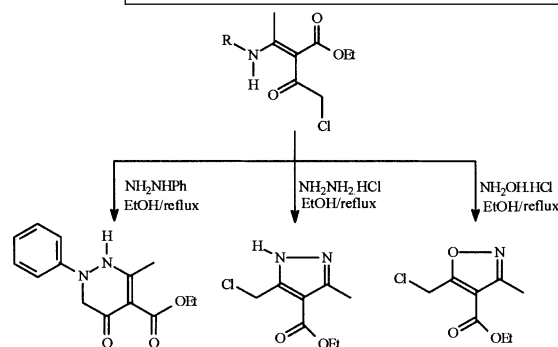
William R. Dolbier, Jr.,* Raphaele Romelaer and J. Marshall Baker
Department of Chemistry, University of Florida, Gainesville, FL 32611-7200, USA



Reactivity of chloroacetylated β -enamino compounds. Synthesis of heterocycles

Tetrahedron Letters 43 (2002) 8079

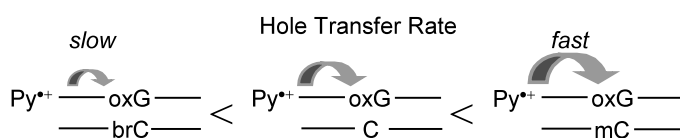
Mara E. F. Braibante,* Hugo T. S. Braibante,
Carla C. Costa and Demétrius B. Martins
Departamento de Química, Universidade Federal de Santa Maria, Santa Maria, RS, 97105-900, Brazil



Regulation of one-electron oxidation rate of guanine and hole transfer rate in DNA through hydrogen bonding

Tetrahedron Letters 43 (2002) 8083

Kiyohiko Kawai,* Tadao Takada, Sachiko Tojo and Tetsuro Majima*
The Institute of Scientific and Industrial Research (SANKEN), Osaka University, Mihogaoka 8-1, Ibaraki, Osaka 567-0047, Japan



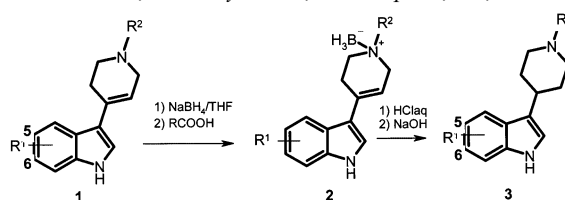
Novel chemoselective reduction of the tetrahydro-4-pyridyl versus indole moiety governed by electron donation: first X-ray evidence for indolopiperidyl–borane complexation

Tetrahedron Letters 43 (2002) 8087

Alfio Borghese,^{a,*} Luc Antoine^a and Gregory Stephenson^b

^a*Chemical Process Research and Development, Lilly Development Centre SA, 1348 Mont-Saint-Guibert, Belgium*

^b*Material Science and Physical Characterization, Eli Lilly & Co, Indianapolis, IN, USA*



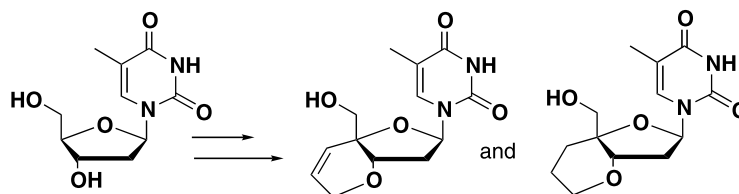
Synthesis of 4'-C, 3'-O bicyclic thymidine analogues using ring closure metathesis

Tetrahedron Letters 43 (2002) 8091

Mickael Montembault,^a Nathalie Bourgougnon^b and Jacques Lebreton^{a,*}

^aLaboratoire de Synthèse Organique, CNRS UMR 6513, Faculté des Sciences et des Techniques, 2 rue de la Houssinière, BP 92208, 44322 Nantes Cedex 3, France

^bBLCBM EA 2594, Centre de Recherche et d'Enseignement Yves Coppens, campus de Tohannic, BP573, Université de Bretagne Sud, 56017 Vannes, France



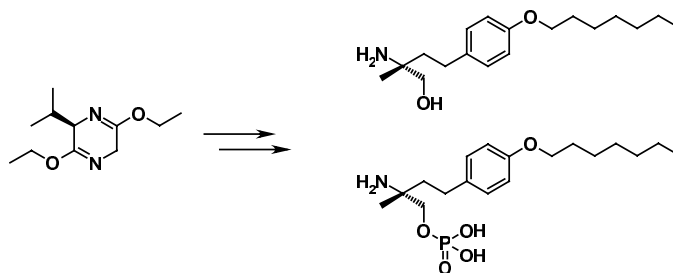
First asymmetric synthesis of chiral analogues of the novel immunosuppressant FTY720

Tetrahedron Letters 43 (2002) 8095

Klaus Hinterding,* Rainer Albert and Sylvain Cottens

Transplantation Research, Novartis Pharma AG, CH-4002 Basel, Switzerland

A practical stereoselective synthesis of chiral analogues of the novel immunosuppressant FTY720 and their corresponding phosphates is described.

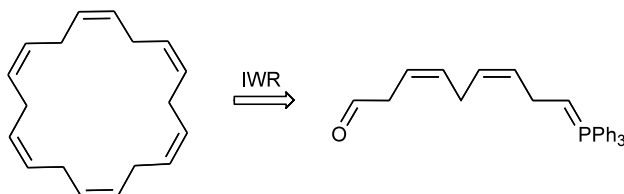


All-(Z)-cyclooctadeca-1,4,7,10,13,16-hexaene: structure and first preparation via an intramolecular Wittig reaction

Tetrahedron Letters 43 (2002) 8099

Sophie Guiard, Maurice Santelli and Jean-Luc Parrain*

Laboratoire de Synthèse Organique, UMR CNRS 6009, Faculté des Sciences de Saint Jérôme, 13397 Marseille, France



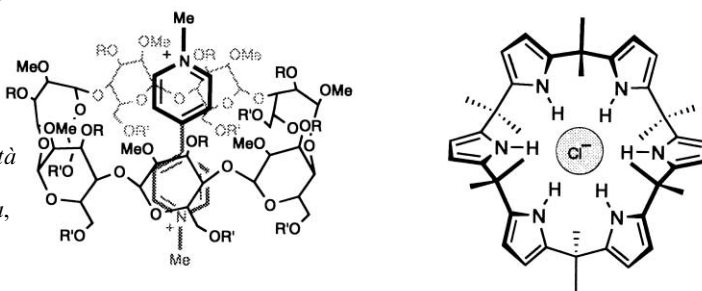
Recognition and binding of paraquat dichloride by cyclodextrin/calix[6]pyrrole binary host systems

Tetrahedron Letters 43 (2002) 8103

Grazia Cafeo,^a Claudia Gargiulli,^a Giuseppe Gattuso,^{a,*} Franz H. Kohnke,^a Anna Notti,^a Salvatore Occhipinti,^b Sebastiano Pappalardo^b and Melchiorre F. Parisi^a

^aDipartimento di Chimica Organica e Biologica, Università di Messina, Salita Sperone 31, I-98166 Messina, Italy

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

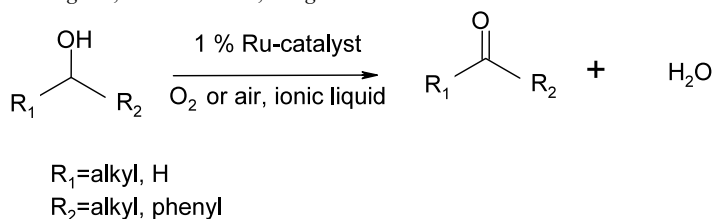


Aerobic oxidation of alcohols with ruthenium catalysts in ionic liquids

Tetrahedron Letters 43 (2002) 8107

Adi Wolfson, Stijn Wuyts, Dirk E. De Vos, Ivo F. J. Vankelecom and Pierre A. Jacobs*

Centre for Surface Chemistry and Catalysis, Faculty of Agricultural and Applied Biological Sciences, Katholieke Universiteit Leuven, Kasteelpark Arenberg 23, 3001 Leuven, Belgium



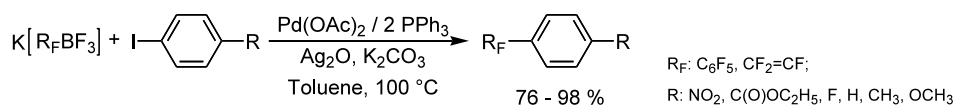
Highly efficient cross-coupling reactions with the perfluoro-organotrifluoroborate salts K [R_FBF₃] (R_F = C₆F₅, CF₂=CF)

Tetrahedron Letters 43 (2002) 8111

H.-J. Frohn,^{a,*} N. Yu. Adonin,^b V. V. Bardin^b and V. F. Starichenko^b

^aInstitute of Chemistry, Inorganic Chemistry, Gerhard-Mercator-University Duisburg, Lotharstraße 1, D-47048 Duisburg, Germany

^bN. N. Vorozhtsov Novosibirsk Institute of Organic Chemistry, SB RAS, Acad. Lavrentjev Ave. 9, 630090 Novosibirsk, Russia



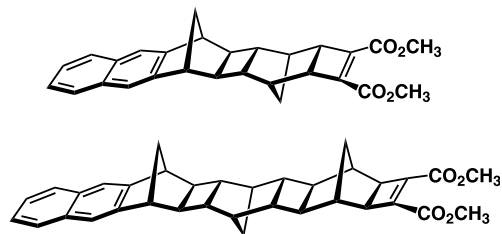
Photoinduced electron transfer reactions across rigid linear spacer groups of high symmetry

Tetrahedron Letters 43 (2002) 8115

Kew-Yu Chen,^b Tahsin J. Chow,^{a,*} Pi-Tai Chou,^{b,*} Yi-Ming Cheng^b and Sheng-Heng Tsai^a

^aInstitute of Chemistry, Academia Sinica, 115 Taipei, Taiwan, ROC

^bDepartment of Chemistry, National Taiwan University, 106 Taipei, Taiwan, ROC

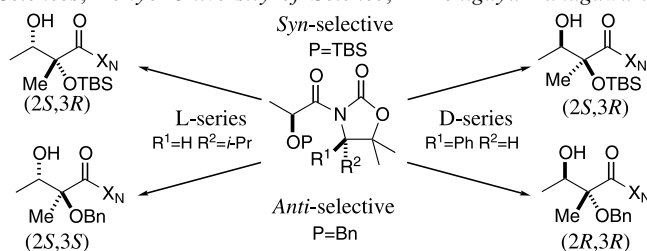


Stereocontrolled preparation of 1,2-diol with quaternary chiral center

Tetrahedron Letters 43 (2002) 8121

Yoshihisa Murata, Tomoyuki Kamino, Seijiro Hosokawa and Susumu Kobayashi*

Faculty of Pharmaceutical Sciences, Tokyo University of Science, 12 Ichigaya-Funagawara-machi, Shinjuku-ku, Tokyo 162-0826, Japan



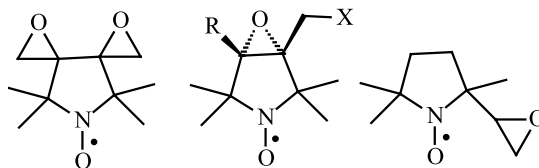
Synthesis of new pyrrolidine nitroxide epoxides as versatile paramagnetic building blocks

Tetrahedron Letters 43 (2002) 8125

Tamás Kálai,^a Cecília P. Sár,^a József Jekő^b and Kálmán Hideg^{a,*}

^aInstitute of Organic and Medicinal Chemistry, University of Pécs, PO Box 99, H-7643 Pécs, Hungary

^bICN Hungary, PO Box 1, H-4440 Tiszavasvári, Hungary

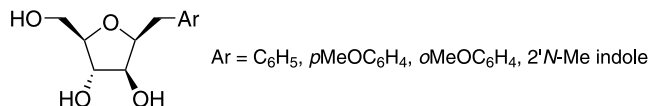


Efficient access to ATP mimics, potential FGF receptor tyrosine kinase inhibitors

Tetrahedron Letters 43 (2002) 8129

Séverinne Rigolet, Isabelle McCort and Yves Le Merrer*

Université René Descartes, Laboratoire de Chimie et Biochimie Pharmacologiques et Toxicologiques, UMR 8601, 45 rue des Saints-Pères, 75270 Paris Cedex 06, France



Zinc-mediated acylation and sulfonation of pyrrole and its derivatives

Tetrahedron Letters 43 (2002) 8133

J. S. Yadav,* B. V. S. Reddy, G. Kondaji, R. Srinivasa Rao and S. Praveen Kumar

Division of Organic Chemistry, Indian Institute of Chemical Technology, Hyderabad 500 007, India



Immediate deamination from the aminomethyl group attached to 1,2-dihydropyrazin-2-one derivative during catalytic hydrogenation

Tetrahedron Letters 43 (2002) 8137

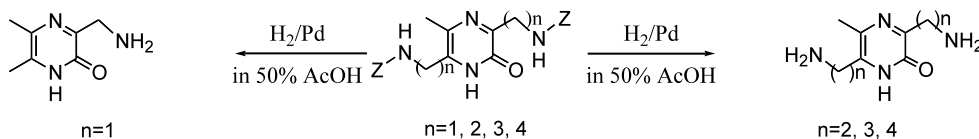
Yoshio Okada,^{a,b,*} Yutaka Fujisawa,^a Akihisa Morishita,^a Kimitaka Shiotani,^a Anna Miyazaki,^a

Yoshio Fujita,^a Tingyou Li,^b Yuko Tsuda,^{a,b} Toshio Yokoi,^{a,b} Sharon D. Bryant^c and Lawrence H. Lazarus^c

^aFaculty of Pharmaceutical Sciences, Kobe Gakuin University, Nishi-ku, Kobe 651-2180, Japan

^bHigh Technology Research Center, Kobe Gakuin University, Nishi-ku, Kobe 651-2180, Japan

^cPeptide Neurochemistry, LCBRA, National Institute of Environmental Health Science, Research Triangle Park, NC 27709, USA



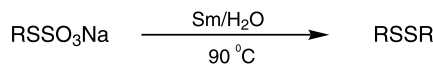
A novel reduction of sodium alkyl thiosulfates using samarium metal without an activating agent in water

Tetrahedron Letters 43 (2002) 8141

Lei Wang,^{a,b,*} Pinhua Li^a and Li Zhou^a

^aDepartment of Chemistry, Huaibei Coal Teachers College, Huaibei, Anhui 235000, PR China

^bState Key Laboratory of Organometallic Chemistry, Shanghai Institute of Organic Chemistry, Chinese Academy of Sciences, Shanghai 200032, PR China

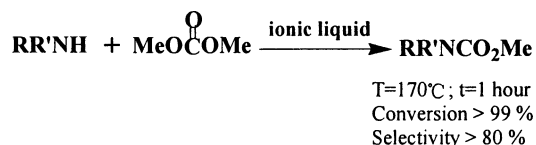


The syntheses of carbamates from reactions of primary and secondary aliphatic amines with dimethyl carbonate in ionic liquids

Tetrahedron Letters 43 (2002) 8145

Tianlong Sima, Shu Guo, Feng Shi and Youquan Deng*

Centre for Green Chemistry and Catalysis, Lanzhou Institute of Chemical Physics, Chinese Academy of Sciences, Lanzhou 730000, China



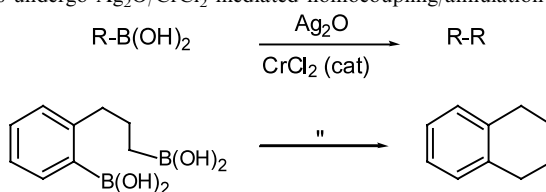
Homocoupling of alkyl-, alkenyl-, and arylboronic acids

Tetrahedron Letters 43 (2002) 8149

J. R. Falck,* Suchismita Mohapatra, Muralidhar Bondlela and Sylesh K. Venkataraman

Departments of Biochemistry and Pharmacology, University of Texas Southwestern Medical Center, Dallas, TX 75390-9038, USA

Alkyl-, alkenyl-, and arylboronic acids undergo Ag₂O/CrCl₂ mediated homocoupling/annulation in moderate to good yields under mild conditions.



Nitrooxyquinones: synthesis, X-ray diffraction and electrochemical studies

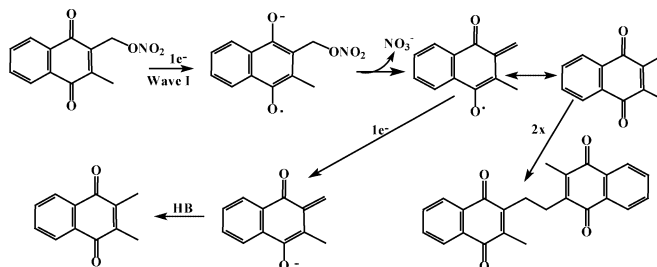
Tetrahedron Letters 43 (2002) 8153

Fabiane C. de Abreu,^a Adriana de O. Lopes,^b Mariano Alves Pereira,^b Carlos Alberto De Simone^b and Marília O. F. Goulart^{b,*}

^aDepartamento de Química do CCET, Universidade Federal de Sergipe, Aracaju, Sergipe 49100-000, Brazil

^bDepartamento de Química do CCEN, Universidade Federal de Alagoas, Maceió, Alagoas 57072-970, Brazil

The synthesized nitrooxyquinones are the first representatives of quinone-derived organic nitrates. Voltammetric studies showed that reductive elimination occurs, after quinone reduction. The NO₃⁻ release, leading to electrogenerated quinonemethide, would suggest a quinone-driven biological activity.

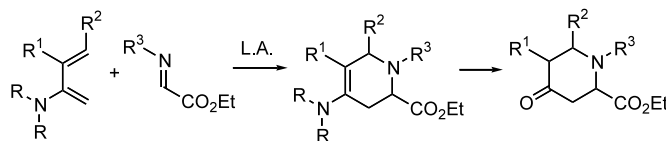


Catalytic imino-Diels–Alder reactions of 2-aminodienes: a simple entry into structurally diverse pipercolic acid derivatives

Tetrahedron Letters 43 (2002) 8159

José Barluenga,* M. Alejandro Fernández, Fernando Aznar and Carlos Valdés

Instituto Universitario de Química Organometálica 'Enrique Moles', Universidad de Oviedo, 33071 Oviedo, Spain



Solid-phase synthesis of functionalized 1,2,4-triazin-6-ones

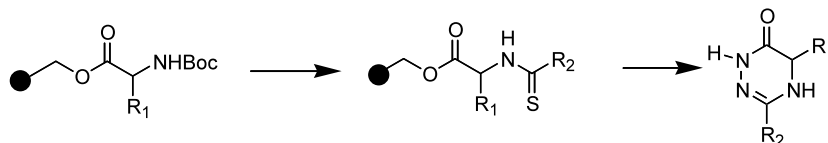
Tetrahedron Letters 43 (2002) 8165

Benjamin E. Blass,^{a,*} Keith R. Coburn,^a Amy L. Faulkner,^a Song Liu,^a Adam Ogden,^a David E. Portlock^a and Anil Srivastava^b

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The solid supported synthesis of functionalized 1,2,4-triazin-6-ones from resin bound amino acids and acid chlorides is described. A thioamide intermediate is generated with Lawesson's reagent, and the final products are cyclized and cleaved from resin with hydrazine. The products are obtained in good yield and purity.



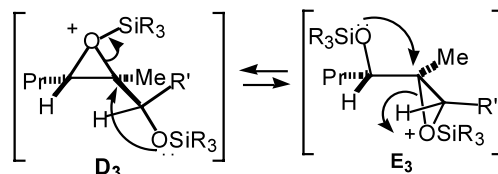
Diastereoselectivity in non-aldol aldol reactions: silyl triflate-promoted Payne rearrangements

Tetrahedron Letters 43 (2002) 8169

Michael E. Jung* and Alexandra van den Heuvel

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The non-aldol aldol process exhibits diastereoselectivity such that one isomer of a secondary epoxy silyl ether gives only the expected ketone product while the other affords both ketone and aldehyde. We present evidence for a novel silyl triflate-promoted Payne rearrangement of silyloxy epoxides, e.g., D₃ ↔ E₃. Additional examples of the non-aldol aldol process are presented including cyclic examples and one in which an aryl ring participates to give unusual products.

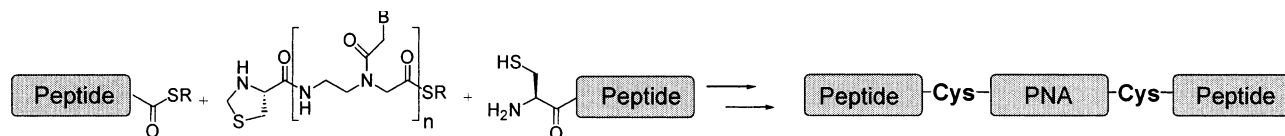


An approach to the synthesis of peptide–PNA–peptide conjugates via native ligation

Tetrahedron Letters 43 (2002) 8173

Martijn C. de Koning, Dmitri V. Filippov, Nico Meeuwenoord, Mark Overhand, Gijs A. van der Marel and Jacques H. van Boom*

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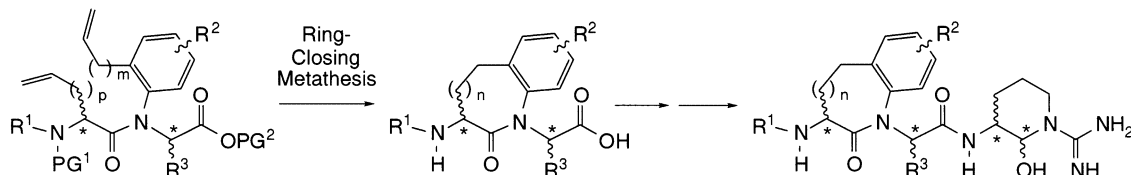
A modular, general and enantiospecific strategy for the synthesis of CVS 1778 analogs: inhibitors of factor Xa

Tetrahedron Letters 43 (2002) 8177

Michael G. Organ,* Juan Xu and Blaise N'Zemba

The Department of Chemistry York University, 4700 Keele Street, Toronto, Ontario, Canada M3J 1P3

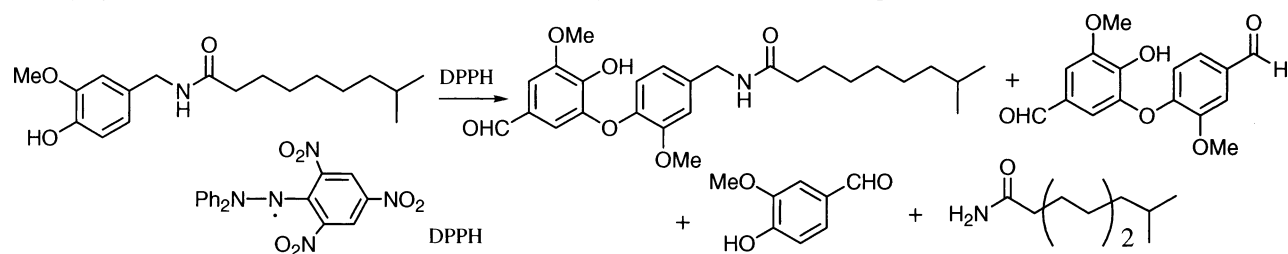
An optically-pure amino acid, benzalactam template was prepared efficiently by ring-closing metathesis. In preliminary studies, this template was demonstrated to be an effective diversification point for the preparation of a factor Xa inhibitor library.



Structures of the radical (DPPH) oxidation products of dihydrocapsaicin

Tetrahedron Letters 43 (2002) 8181

Tetsuya Nakamura, Takashi Ooi, Kentaro Kogure, Miki Nishimura, Hiroshi Terada and Takenori Kusumi*
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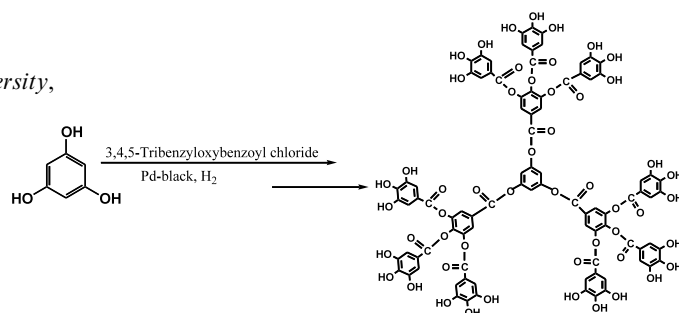


Synthesis of poly (3,4,5-trihydroxybenzoate ester) dendrimers and their chemiluminescence

Tetrahedron Letters 43 (2002) 8185

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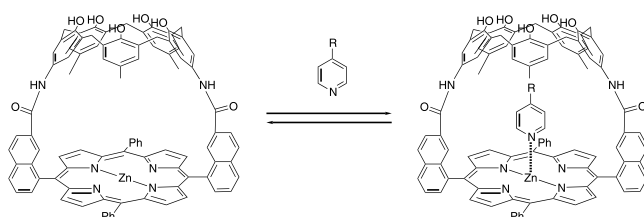


Synthesis and binding behavior of a Zn(II)-porphyrin having calix[5]arene cap

Tetrahedron Letters 43 (2002) 8191

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An enantioselective total synthesis of phomopsolide C

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