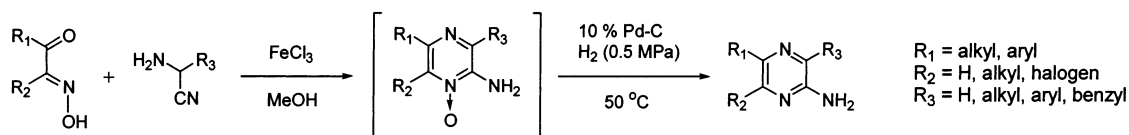


Efficient synthesis of substituted 2-aminopyrazines: FeCl₃-promoted condensation of hydroxyiminoketones with aminoacetonitriles

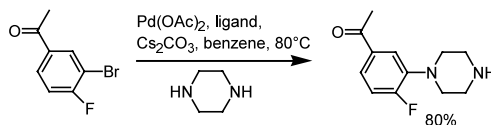
Tetrahedron Letters 43 (2002) 9287

Takahiro Itoh,* Kenji Maeda, Toshihiro Wada, Koji Tomimoto and Toshiaki Mase

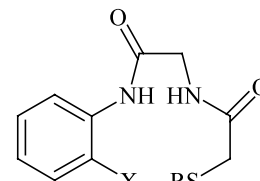
Process R & D, Laboratories for Technology Development, Banyu Pharmaceutical Co. Ltd, Kamimutsuna 3-Chome-9-1, Okazaki, Aichi 444-0858, Japan**Palladium-catalyzed amination of 3-bromo-4-fluoro-acetophenone**

Tetrahedron Letters 43 (2002) 9291

Li-Qiang Sun, Huan He, Jie Chen and Yong-Jin Wu*

*The Bristol-Myers Squibb Pharmaceutical Research Institute, 5 Research Parkway, Wallingford, CT 06492, USA*The palladium-catalyzed amination of 3-bromo-4-fluoro-acetophenone was found to predominate over both the 4-fluoro nucleophilic substitution with amines and the palladium-catalyzed α -arylation of the acetyl group.**A simplified route to the synthesis of new ^{99m}Tc-specific tetradentate ligands**

Tetrahedron Letters 43 (2002) 9295

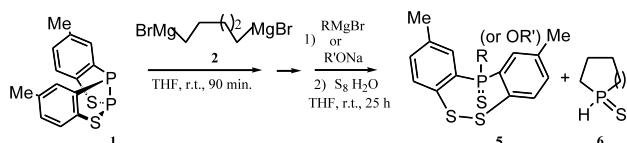
Julien Le Gal,^a Eric Benoist,^{a,*} Marie Gressier,^a Yvon Coulais^b and Michèle Dartiguenave^a^a*Laboratoire de Chimie Inorganique, Université Paul Sabatier, Bat. IIR1, 118, route de Narbonne, 31062 Toulouse, France*^b*Service de Médecine Nucléaire, Hôpital Purpan, Place du docteur Baylac, 31059 Toulouse, France*New ^{99m}Tc-specific ligands are described and the in vivo stability of their ^{99m}Tc-complexes are evaluated.

$X = \text{OH}; R = \text{Bz or Trt}$
 $X = \text{STrt}, R = \text{Trt}$

Simple and general synthesis of new 11H-11 λ ⁵-dibenzo[*c,f*][1,2,5]-dithiaphosphine derivatives

Tetrahedron Letters 43 (2002) 9299

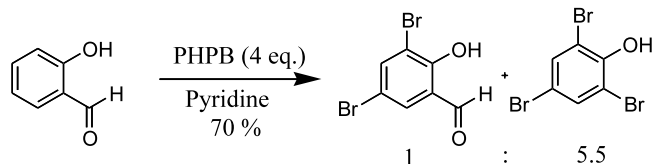
Graziano Baccolini,* Carla Boga, Giulia Guizzardi and Stefano Ponzano

Dipartimento di Chimica Organica 'A. Mangini', Università di Bologna, Viale Risorgimento 4, I-40136 Bologna, Italy

Pyridinium hydrobromide perbromide induces *ipso*bromodeformylation in *o*-hydroxy and *o*-methoxy substituted aromatic aldehydes

Rubén Córdoba and Joaquín Plumet*

Universidad Complutense, Facultad de Química, Departamento de Química Orgánica, E-28040 Madrid, Spain



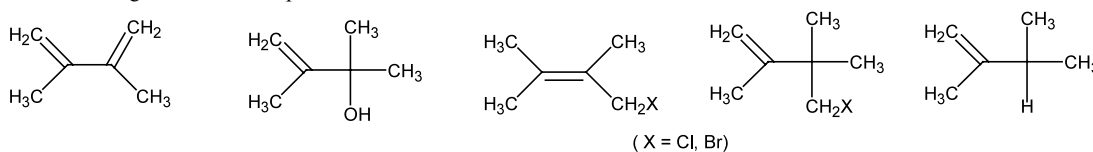
Effect of various acids at different concentrations on the pinacol rearrangement

Monica De Lezaeta,^a Wajiha Sattar,^a Paris Svoronos,^{a,*} Sasan Karimi^{a,*} and Gopal Subramaniam^{b,*}

^aDepartment of Chemistry, Queensborough Community College, CUNY, Bayside, NY 11364, USA

^bDepartment of Chemistry and Biochemistry, Queens College, CUNY, Flushing, NY 11367, USA

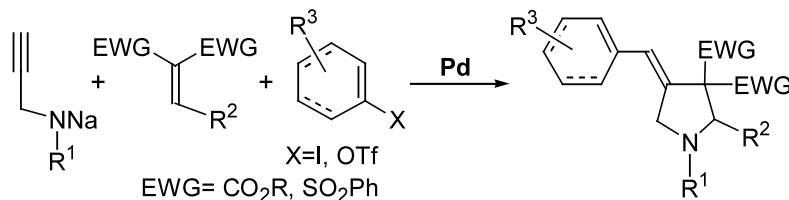
The formation of pinacolone and the following side products was studied in the pinacol–pinacolone rearrangement as a function of concentration and strength of various aqueous acids.



Three-component one-pot synthesis of functionalised (*Z*)-4-benzylidene (and alkenylidene) pyrrolidines

Stéphane Azoulay, Nuno Monteiro and Geneviève Balme*

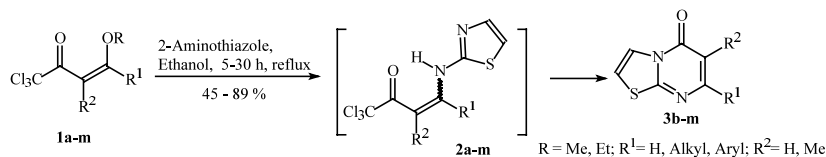
Laboratoire de Chimie Organique 1, CNRS UMR 5622, Université Claude Bernard-Lyon I, CPE. 43, Bd du 11 Novembre 1918, 69622 Villeurbanne, France



β -Alkoxyvinyl trichloromethyl ketones as *N*-heterocyclic acylating agent. A new access to 5*H*-thiazolo[3,2-*a*]pyrimidin-5-ones

Helio G. Bonacorso,* Rogério V. Lourega, Arci D. Wastowski, Alex F. C. Flores, Nilo Zanatta and Marcos A. P. Martins

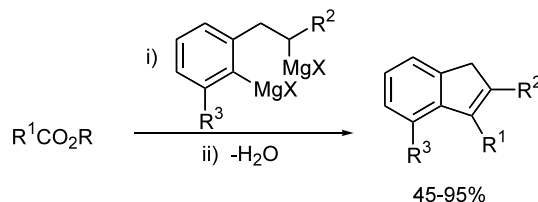
Núcleo de Química de Heterociclos, NUQUIMHE, Departamento de Química, Universidade Federal de Santa Maria, 97105-900 Santa Maria, RS, Brazil



A new synthesis of 3-substituted-1*H*-indenes through reaction of *o*-(β -magnesioalkyl)phenylmagnesium dihalides with carboxylate esters

Robert W. Baker,* Michael A. Foulkes, Michael Griggs and Bao N. Nguyen

School of Chemistry, University of Sydney, NSW 2006, Australia

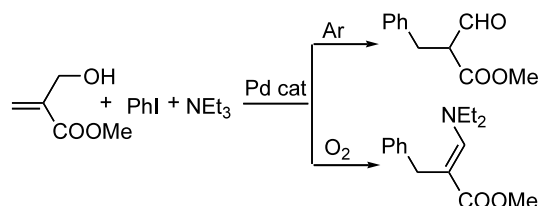


The Heck reaction in the presence of molecular oxygen

Takahiro Hosokawa,^{a,*} Taisuke Kamiike,^a Shun-Ichi Murahashi,^b Mamoru Shimada^b and Toshihiro Sugafuji^b

^aDepartment of Environmental Systems Engineering, Faculty of Engineering, Kochi University of Technology, Tosayamada, Kochi 782-8502, Japan

^bGraduate School of Engineering Science, Osaka University, Machikaneyama, Toyonaka, Osaka 560-8531, Japan

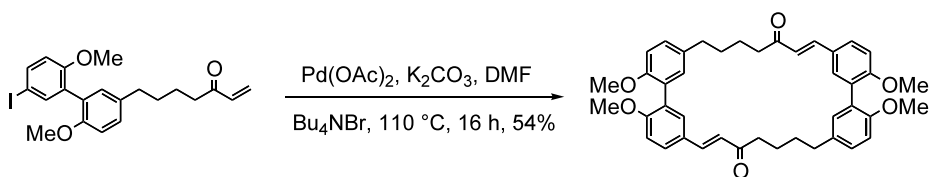


A tandem Heck reaction leading to a 26-membered carbocycle

David C. Harrowven,^{a,*} Timothy Woodcock^a and Peter D. Howes^b

^aDepartment of Chemistry, The University, Southampton SO17 1BJ, UK

^bMetabolic and Viral Chemistry, GlaxoSmithKline Medicines Research Centre, Gunnels Wood Road, Stevenage SG1 2NY, UK



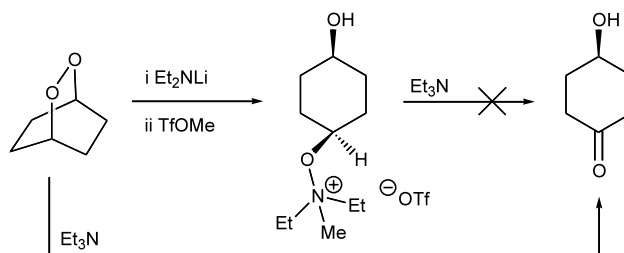
The mechanism of the tertiary amine catalysed isomerisation of endoperoxides to hydroxyketones: synthesis and chemistry of the intermediate postulated in the peroxide attack mechanism

David R. Kelly,^{a,*} Harjinder Bansal^b and

J. J. Gwynfor Morgan^a

^aDepartment of Chemistry, Cardiff University, PO Box 912, Cardiff CF10 3TB, Wales, UK

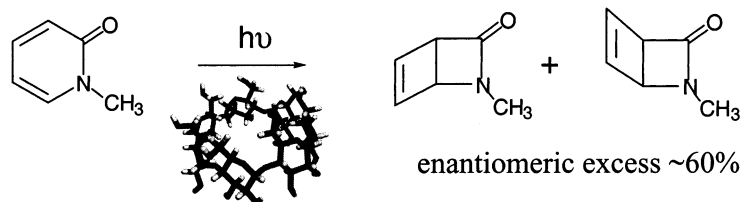
^bSyngenta AG, Jealott's Hill Research Centre, Bracknell, Berks RG42 6ET, UK



Cyclodextrin mediated solvent-free enantioselective photocyclization of *N*-alkyl pyridones

J. Shailaja, S. Karthikeyan and V. Ramamurthy*

Department of Chemistry, Tulane University, New Orleans, LA 70118, USA



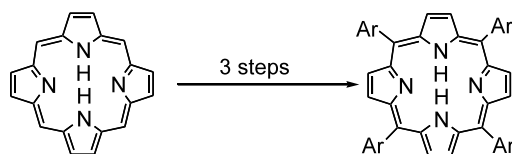
Tetrahedron Letters 43 (2002) 9335

A novel, high-yielding synthesis of *meso*-substituted porphyrins via the direct arylation of porphine

Dong-Fang Shi^a and Richard T. Wheelhouse^{b,*}

^aCollege of Pharmacy, University of Texas at Austin, Austin, TX 78712, USA

^bSchool of Pharmacy, The University of Bradford, Bradford, West Yorkshire, BD7 1DP, UK

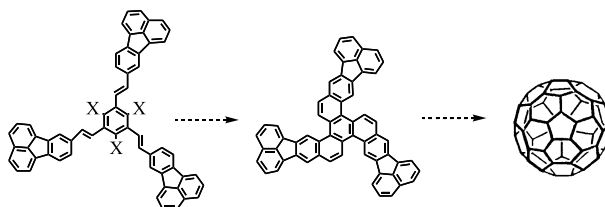


Tetrahedron Letters 43 (2002) 9341

Rapid acquisition of a sixty-carbon fullerene precursor. A new synthetic approach to C₆₀

Goverdhan Mehta* and P. V. V. Srirama Sarma

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



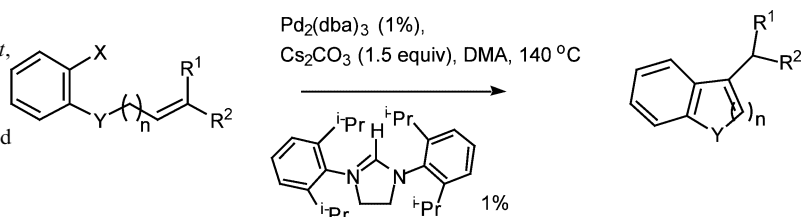
Tetrahedron Letters 43 (2002) 9343

Observations on the intramolecular Heck reactions of aromatic chlorides using palladium/imidazolium salts

Stephen Caddick* and William Kofie

Centre for Biomolecular Design and Drug Development,
The Chemistry Laboratory, CPES,
University of Sussex, Falmer, Brighton BN1 9QJ, UK

Intramolecular Heck reactions are conveniently carried out using a palladium/imidazolium salt protocol. Of particular note is the finding that tetra-*n*-butylammonium salts are required to promote the reaction of aromatic chlorides.



Tetrahedron Letters 43 (2002) 9347

Hexakis (pyridyl-functionalised porphyrinato)benzene as a building block for the construction of multi-chromophoric arrays

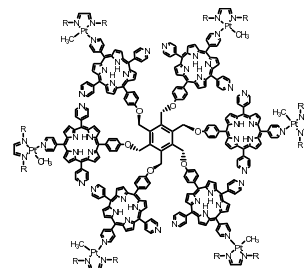
Tetrahedron Letters 43 (2002) 9351

Marga C. Lensen,^a Mariangela Castriciano,^b Ruud G. E. Coumans,^a Jantien Foekema,^a Alan E. Rowan,^{a,*} Luigi Monsù Scolaro^b and Roeland J. M. Nolte^a

^aDepartment of Organic Chemistry, NSRIM, University of Nijmegen, Toernooiveld 1, 6525 ED Nijmegen, The Netherlands

^bDipartimento di Chimica Inorganica, Chimica Analitica e Chimica Fisica, Università di Messina, Salita Sperone n.31 V.II. S. Agata 98166 Messina, ISMN-CNR, Sezione di Messina, and INFN, Unità di Messina, Messina, Italy

A hexakis porphyrinato benzene functionalised with 18 pyridine groups binds only six platinum diimine complexes due to its propeller-like structure and self-assembles to form ring-shaped architectures on a carbon substrate.



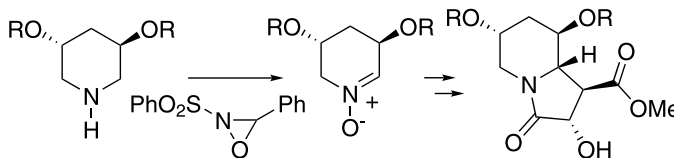
A new nitron from C₂ symmetric piperidine for the synthesis of hydroxylated indolizidinone

Tetrahedron Letters 43 (2002) 9357

Alberto Brandi,^{a,*} Stefano Cicchi,^a Valentina Paschetta,^a Domingo Gomez Pardo^b and Janine Cossy^{b,*}

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

^bLaboratoire de Chimie Organique, associé au CNRS, ESPCI, 10 rue Vauquelin, 75231 Paris Cedex 05, France



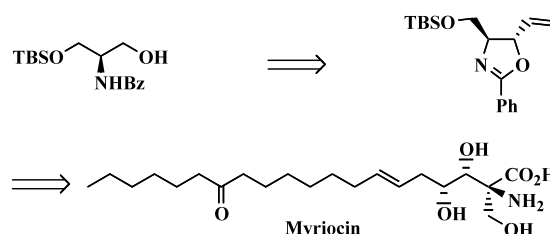
Total synthesis of myriocin

Tetrahedron Letters 43 (2002) 9361

Kee-Young Lee, Chang-Young Oh, Yong-Hyun Kim, Jae-Eun Joo and Won-Hun Ham*

College of Pharmacy, SungKyunKwan University, Suwon 440-746, South Korea

A concise, stereocontrolled synthesis of myriocin was achieved. Key features involve diastereoselective oxazoline formation catalyzed by palladium(0), MgBr₂-promoted allylic stannane addition, and palladium(0)-catalyzed coupling of a vinyl iodide with an organozinc reagent.

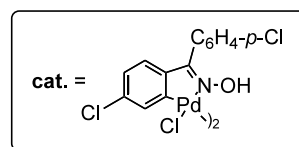
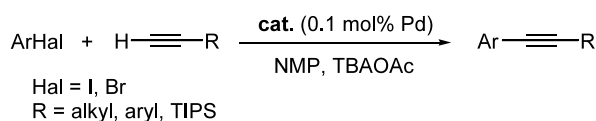


A copper- and amine-free Sonogashira-type coupling procedure catalyzed by oxime palladacycles

Tetrahedron Letters 43 (2002) 9365

Diego A. Alonso, Carmen Nájera* and M^a Carmen Pacheco

Departamento de Química Orgánica, Facultad de Ciencias, Universidad de Alicante, Apdo. 99, 03080 Alicante, Spain



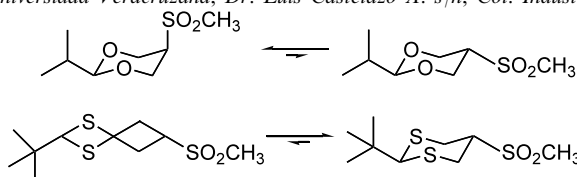
Contrasting conformational behavior of 5-methylsulfonyl-1,3-dioxane and -1,3-dithiane in the minimization of steric and electrostatic repulsive interactions

Tetrahedron Letters 43 (2002) 9369

J. Samuel Cruz-Sánchez^{a,b} and Eusebio Juaristi^{a,*}

^aDepartamento de Química, Centro de Investigación y de Estudios Avanzados del Instituto Politécnico Nacional, Apartado Postal 14-740, 07000 Mexico, D.F., Mexico

^bInstituto de Ciencias Básicas de la Universidad Veracruzana, Dr. Luis Castelazo A. s/n, Col. Industrial-Animas, 91190 Xalapa, Ver., Mexico

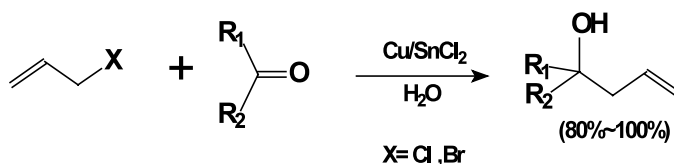


Novel carbonyl allylation mediated by SnCl₂/Cu in water

Tetrahedron Letters 43 (2002) 9373

Xiang-Hui Tan, Bo Shen, Lei Liu* and Qing-Xiang Guo*

Department of Chemistry, University of Science and Technology of China, Hefei 230026, China

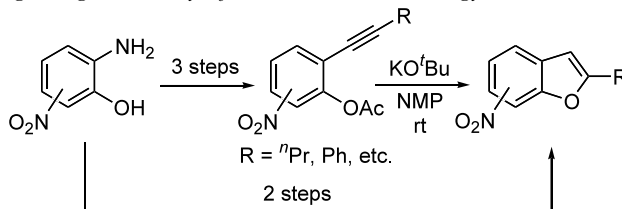


Chemistry of aminophenols. Part 3: First synthesis of nitrobenzo[b]furans via a coupling-cyclization approach

Tetrahedron Letters 43 (2002) 9377

Wei-Min Dai* and Kwong Wah Lai

Department of Chemistry and Open Laboratory of Chirotechnology of The Institute of Molecular Technology for Drug Discovery and Synthesis, The Hong Kong University of Science and Technology, Clear Water Bay, Kowloon, Hong Kong SAR, China



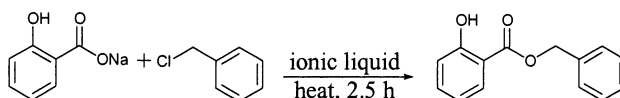
A facile and efficient nucleophilic displacement reaction at room temperature in ionic liquids

Tetrahedron Letters 43 (2002) 9381

Zaher M. A. Judeh,* Hao-Yu Shen, Chi Bun Ching, Li-Chun Feng and Selvaratnam Selvasothi

Chemical and Process Engineering Centre, National University of Singapore, 10 Kent Ridge Crescent, Singapore 117576

The effectiveness of ionic liquids as catalysts and reaction media for the homogeneous nucleophilic displacement reaction between sodium salicylate and benzyl chloride was investigated at different temperatures and was found to proceed under relatively mild conditions with excellent conversion (up to 96%) without the use of PTCs.



Strongly basic macrocyclic triamines, 1,5,9-triazacyclododecanes for solvent extraction of gold(I) cyanide

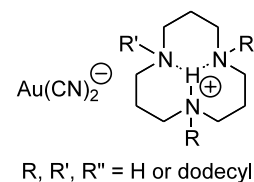
Tetrahedron Letters 43 (2002) 9385

Heung-Jin Choi,^{a,*} Yoon-Kyung Bae,^a Seok-Chan Kang,^a Yeon Sil Park,^a Joon Won Park,^a Woong-Il Kim^a and Thomas W. Bell^b

^aDepartment of Industrial Chemistry, Kyungpook National University, Taegu 702-701, South Korea

^bDepartment of Chemistry, University of Nevada, Reno, NV, 89557, USA

Synthesis of alkylated 1,5,9-triazacyclododecanes and first efficient solvent extraction of gold cyanide by the amines without modifiers are presented.

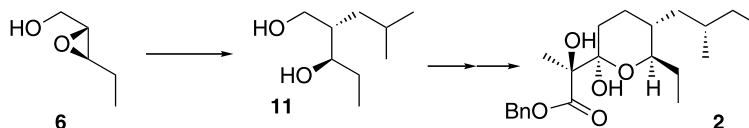


Synthesis of the acyl side chain segment of polyoxypeptins using regioselective ring-opening of chiral 2,3-epoxy alcohol

Tetrahedron Letters 43 (2002) 9391

Kazuishi Makino, Tatsuya Suzuki, Shinobu Awane, Osamu Hara and Yasumasa Hamada*

Graduate School of Pharmaceutical Sciences, Chiba University, Yayoi-cho, Inage-ku, Chiba 263-8522, Japan



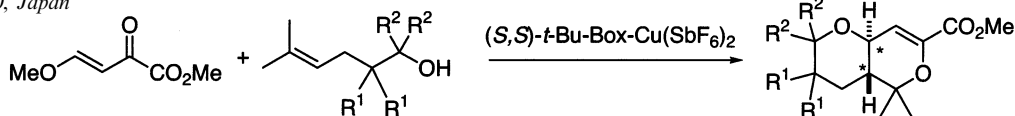
A novel catalytic enantioselective tandem transesterification–intramolecular hetero Diels–Alder reaction of methyl (*E*)-4-methoxy-2-oxo-3-butenate with δ,ϵ -unsaturated alcohols

Tetrahedron Letters 43 (2002) 9397

Eiji Wada,^{a,*} Hidetaka Koga^b and Govindaraj Kumaran^a

^aInstitute of Advanced Material Study, Kyushu University, 6-1 Kasugakoen, Kasuga 816-8580, Japan

^bDepartment of Molecular and Material Science, Graduate School of Engineering Sciences, Kyushu University, 6-1 Kasugakoen, Kasuga 816-8580, Japan



R¹ = R² = H (up to 97% ee); R¹ = Me, R² = H (up to 98% ee); R¹ = H, R² = Me (up to 98% ee)

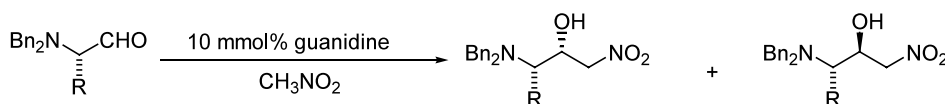
Diastereoselective Henry reactions of *N,N*-dibenzyl α -amino aldehydes with nitromethane catalyzed by enantiopure guanidines

Tetrahedron Letters 43 (2002) 9401

Dawei Ma,^{a,*} Qiangbiao Pan^b and Fushe Han^a

^aState Key Laboratory of Bioorganic and Natural Products Chemistry, Shanghai Institute of Organic Chemistry, Chinese Academy of Sciences, 354 Fenglin Lu, Shanghai 200032, China

^bDepartment of Chemistry, Fudan University, Shanghai 200433, China



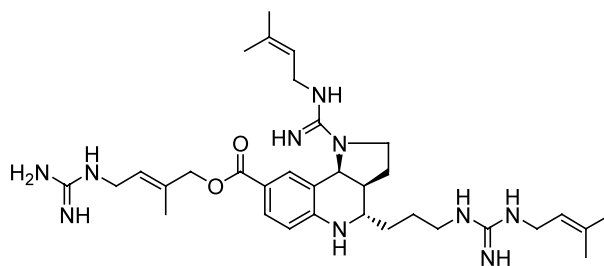
Total synthesis of (\pm)-martinelline

Tetrahedron Letters 43 (2002) 9405

Chengfeng Xia,^a Linshen Heng^b and Dawei Ma^{a,*}

^aState Key Laboratory of Bioorganic and Natural Products
Chemistry, Shanghai Institute of Organic Chemistry,
354 Fenglin Lu, Shanghai 200032, China

^bDepartment of Chemistry, Daxian Normal College,
Sichuan 635000, China

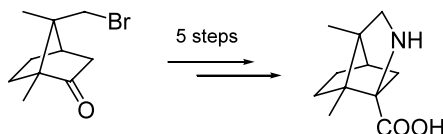


A chiral tricyclic proline analogue obtained from camphor

Tetrahedron Letters 43 (2002) 9411

Marian V. Gorichko, Oleksandr O. Grygorenko and Igor V. Komarov*

Department of Chemistry, Kiev Taras Shevchenko University, Vladimirska Street, 64, Kiev 01033, Ukraine



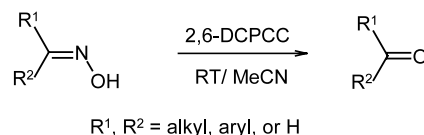
2,6-Dicarboxypyridinium chlorochromate: a mild, efficient, and selective reagent for oxidative deprotection of oximes to carbonyl compounds

Tetrahedron Letters 43 (2002) 9413

Rahman Hosseinzadeh,* Mahmood Tajbakhsh* and Mohammad Yazdani Niaki

Department of Chemistry, Mazandaran University, Babolsar, Iran

Deprotection of oximes with 2,6-dicarboxypyridinium chlorochromate in acetonitrile at ambient temperature as a new, rapid, efficient, and selective procedure has been studied.



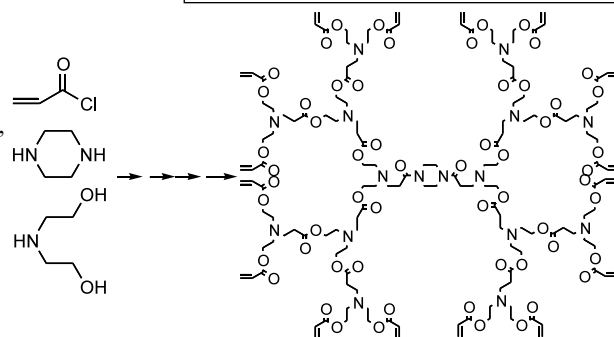
A divergent synthesis of new aliphatic poly(ester-amine) dendrimers bearing peripheral hydroxyl or acrylate groups

Tetrahedron Letters 43 (2002) 9417

Yaowu Sha,* Liang Shen and Xiaoyin Hong

State Laboratory of Bioorganic Phosphorus Chemistry,
Department of Chemistry, School of Life Science and Engineering,
Tsinghua University, Beijing 100084, PR China

A novel class of aliphatic poly(ester-amine) dendrimers was designed and synthesized via a divergent strategy using diethanolamine and acryloyl chloride as monomeric building blocks.

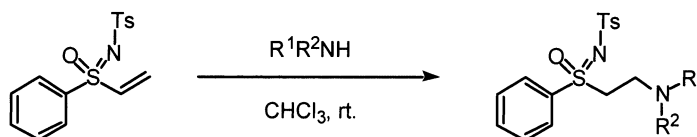


Conjugate addition of amines to vinyl sulfoximides: a general method for the synthesis of β -amino sulfoximides

Tetrahedron Letters 43 (2002) 9421

Heather Tye*

School of Chemical Sciences, The University of Birmingham, Edgbaston, Birmingham, B15 2TT, UK

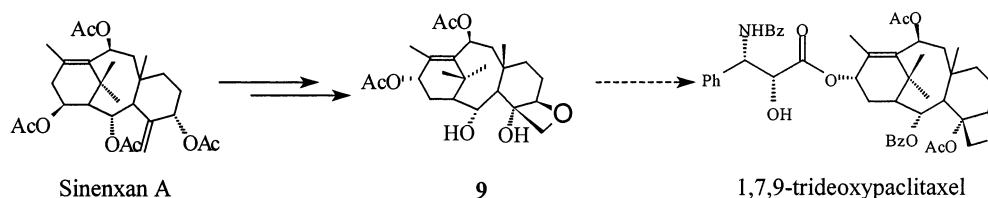


Synthetic study of 1,7,9-trideoxypaclitaxel via sinenxan A

Tetrahedron Letters 43 (2002) 9425

Meng Zhang, Dali Yin,* Ji-Yu Guo and Xiao-Tian Liang

Institute of Materia Medica, Chinese Academy of Medical Sciences and Peking Union Medical College, Beijing 100050, PR China



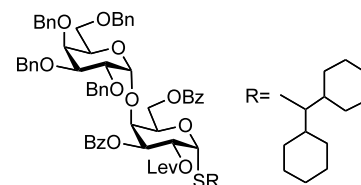
Chemoselective glycosylations of sterically hindered glycosyl acceptors

Tetrahedron Letters 43 (2002) 9429

Richard Geurtsen and Geert-Jan Boons*

Complex Carbohydrate Research Center, University of Georgia, 220 Riverbend Road, Athens, GA 30602-4712, USA

Intermolecular aglycon transfer in chemoselective glycosylations could be avoided by employing a glycosyl acceptor that has a bulky anomeric dicyclohexylmethanethio group.



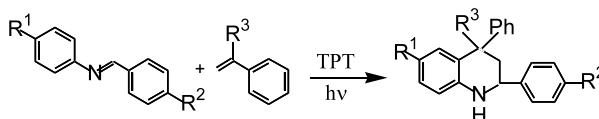
Photosensitized Diels–Alder reactions of *N*-arylimines: synthesis of tetrahydroquinoline derivatives

Tetrahedron Letters 43 (2002) 9433

Wei Zhang, Xiaodong Jia, Li Yang and Zhong-Li Liu*

National Laboratory of Applied Organic Chemistry, Lanzhou University, Lanzhou, Gansu 730000, China

New prospects for the synthesis of tetrahydroquinoline skeletons are offered by triphenylpyrylium tetrafluoroborate (TPT) photosensitized cycloaddition reactions of *N*-arylimines with styrenes. These are the first photoinduced electron transfer (PET) catalyzed Diels–Alder reactions of imines.



An expeditious synthesis of a β -silylethanol anchoring group by a silicon directed Baeyer–Villiger oxidation on solid-phase

Prema Iyer and Sunil K. Ghosh*

Bio-Organic Division, Bhabha Atomic Research Centre, Mumbai 400 085, India

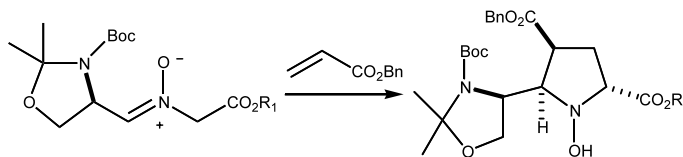


Solution- and solid-phase asymmetric synthesis of substituted *N*-hydroxypyrrolidine dicarboxylic acids

Stephen Hanessian* and Malken Bayrakdarian

Department of Chemistry, Université de Montréal,
C. P. 6128, Succ. Centre-Ville, Montréal, P. Q.,
Canada H3C 3J7

Nitron ylids prepared from α -amino aldehyde derivatives undergo 1,3-dipolar cyclocondensation reactions to give enantiopure C-4 branched *N*-hydroxy proline esters. The different functional groups can be manipulated to provide diversely substituted *N*-hydroxy-pyrrolidine dicarboxylic acids. The reaction can be adapted to solid-phase synthesis.

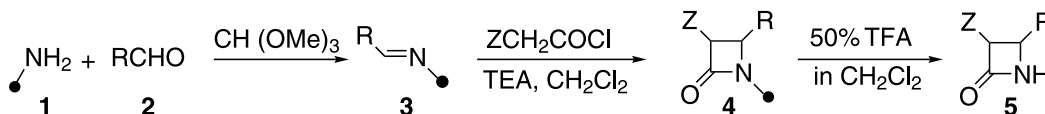


A new entry to *N*-unsubstituted β -lactams through a solid-phase approach

Swapan K. Dasgupta and Bimal K. Banik*

The University of Texas M.D. Anderson Cancer Center, Department of Molecular Pathology, Box 89,
1515 Holcombe Blvd., Houston, TX 77030, USA

A remarkable new entry to *N*-unsubstituted β -lactams using rink resin as the solid-support has been developed.

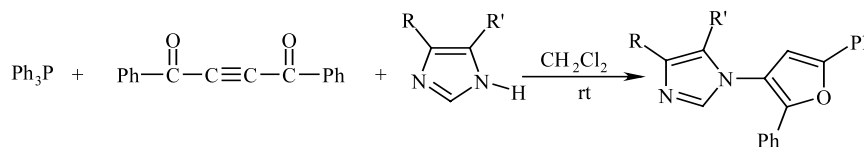


Reaction between heterocyclic NH-acids and dibenzoylacetylene in the presence of triphenylphosphine. Simple synthesis of 1-(3-furyl)-1*H*-imidazole derivatives

Issa Yavari,* Abdolali Alizadeh and Mohammad Anary-Abbasinejad

Department of Chemistry, University of Tarbiat Modarres, PO Box 14115-175, Tehran, Iran

The reaction of dibenzoylacetylene and heterocyclic NH-acids in the presence of triphenylphosphine leads to 3-substituted furans.

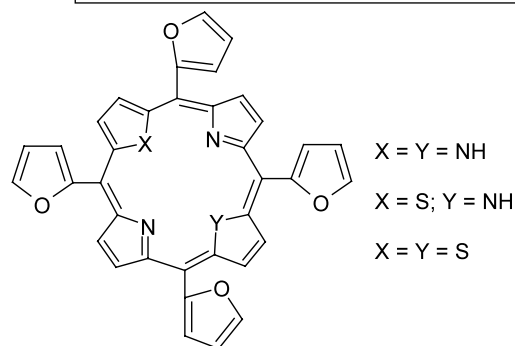


Synthesis of *meso*-furyl porphyrins

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Mumbai 400 076, India

Synthesis and characterization of *meso*-furyl porphyrins with N₄, N₃S and N₂S₂ porphyrin cores are reported.

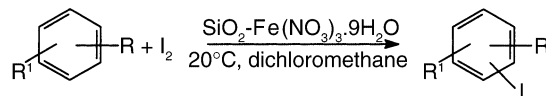


Tetrahedron Letters 43 (2002) 9453

Iodination of activated arenes using silfen: an improved protocol

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Applied Chemistry Division, Institute of Chemical Technology, University of Mumbai, Matunga, Mumbai-400 019, India



where R, R' = -H, alkoxy, alkyl, aryloxy, halogen etc.

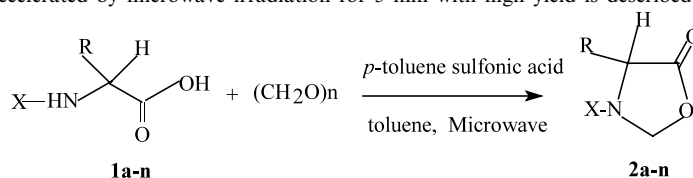
Tetrahedron Letters 43 (2002) 9457

Microwave accelerated efficient synthesis of *N*-fluorenylmethoxycarbonyl/*t*-butoxycarbonyl/benzyloxycarbonyl-5-oxazolidinones

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Department of Chemistry, Central College Campus, Bangalore University, Bangalore 560 001, India

The synthesis of *N*-protected oxazolidinones using *N*-protected amino acids, paraformaldehyde and *p*-toluene sulfonic acid in a minimum amount of toluene accelerated by microwave irradiation for 3 min with high yield is described.



Tetrahedron Letters 43 (2002) 9461

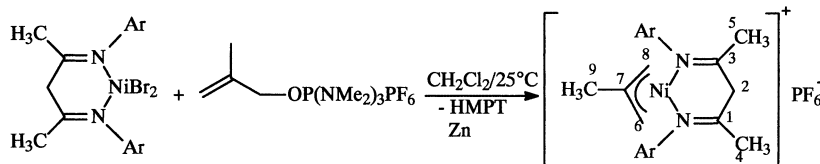
Synthesis and structure of cationic nickel allyl complexes supported by β -diimine ligands

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^bLaboratoire de Chimie des Matériaux, Faculté des Sciences de Bizerte, 7021 Zarzouna, Tunisia

Reduction of β -diimine nickel(II) complexes in the presence of 2-methylallyloxyphosphonium salt is a highly efficient one step synthesis of cationic allyl nickel complexes supported by β -diimine ligands.



Tetrahedron Letters 43 (2002) 9463

Synthesis of quercetin 3-O-(2''-galloyl)- α -L-arabinopyranoside

Tetrahedron Letters 43 (2002) 9467

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