Tetrahedron Letters 44 (2003) 8535

An efficient palladium catalyzed synthesis of 2-arylbenzothiazoles

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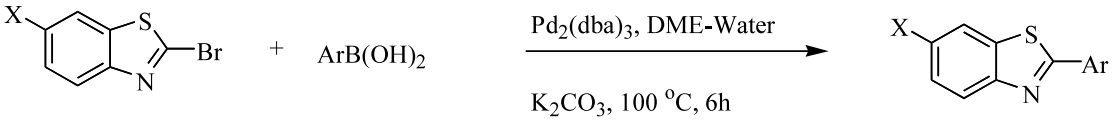
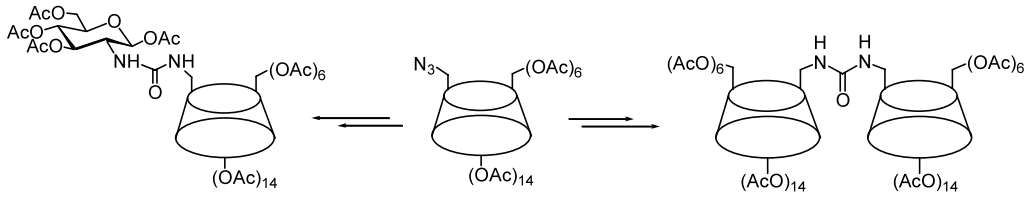


Tetrahedron Letters 44 (2003) 8539

A facile access to ureido sugars. Synthesis of urea-bridged β-cyclodextrins

Inés Maya,* Óscar López, Susana Maza, José G. Fernández-Bolaños and José Fuentes

Departamento de Química Orgánica, Facultad de Química, Universidad de Sevilla, Apartado 553, E-41071 Sevilla, Spain



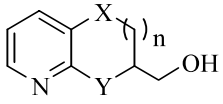
Tetrahedron Letters 44 (2003) 8545

Novel analogues of 3-substituted-2,3-dihydro-1,4-dioxino-[2,3-*b*]pyridines: modifications in the dioxane ring

José M. Bartoloméa,[a,*] Jesús Alcázar,[a] J. Ignacio Andrés,[a] Marcel De Bruyn,[b] Javier Fernández,[a] Encarna Matesanz[a] and Kristof Van Emelen[b]

[a]*Johnson & Johnson Pharmaceutical Research & Development, a Division of Janssen-Cilag S.A., Medicinal Chemistry Dept., Jarama s/n, 45007 Toledo, Spain*

[b]*Johnson & Johnson Pharmaceutical Research & Development, a Division of Janssen Pharmaceutica N. V., Medicinal Chemistry Dept., Turnhoutseweg 30, B-2340 Beerse, Belgium*



Four functionalizable scaffolds, close analogues of the 3-substituted-2,3-dihydro-1,4-dioxino[2,3-*b*]-pyridine core modified in the 1,4-dioxane ring, are described for the first time.

X, Y = O; n = 0
X= O, Y= CH_2, n = 1
X = O, Y = S, n = 1
X = NCH_3, Y = O, n = 1

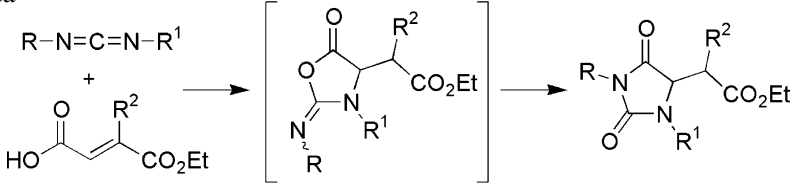
Tetrahedron Letters 44 (2003) 8549

Domino condensation/aza-Michael/O→N acyl migration of carbodiimides with activated α,β-unsaturated carboxylic acids to form hydantoins

Alessandro Volonterio[a,*] and Matteo Zanda[b,*]

[a]*Dipartimento di Chimica, Materiali ed Ingegneria Chimica 'G. Natta' del Politecnico di Milano, via Mancinelli 7, I-20131 Milano, Italy*

[b]*C.N.R., Istituto di Chimica del Riconoscimento Molecolare, sezione 'A. Quilico', via Mancine lli 7, I-20131 Milano, Italy*



R, R^1 = *i*-Pr, *c*-Hexyl, *t*-Bu, etc.; R^2 = CF_3, CO_2Et, H, etc.

Argeloside A and B, two novel 14,15-secopregnane glycosides from *Solenostemma argel*

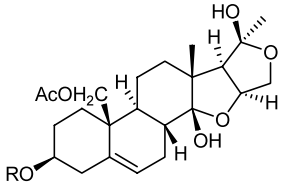
Tetrahedron Letters 44 (2003) 8553

Alberto Plaza,[a] Giuseppe Bifulco,[a] Arafa I. Hamed,[b] Cosimo Pizza[a,*] and Sonia Piacente[a]

[a]*Dipartimento di Scienze Farmaceutiche, Università degli Studi di Salerno, via Ponte Don Melillo, 84084 Fisciano, Salerno, Italy*

[b]*Faculty of Science, South Valley University, Aswan 81528, Egypt*

Argeloside A and B, two novel 14,15-secopregnane glycosides characterized by the presence of two hemiketal functions involved in two five-membered rings, were isolated from *Solenostemma argel* fruits. Their structures have been established by ESIMS and NMR experiments. In particular the relative configuration of the molecules has been defined by combining the available NMR data with quantum chemical calculations of the geometries and ^{13}C chemical shifts.



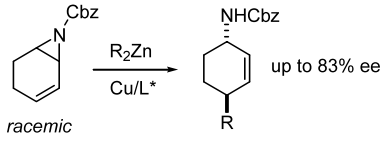
Regio- and enantioselective copper-catalyzed addition of dialkylzinc reagents to cyclic 2-alkenyl aziridines

Tetrahedron Letters 44 (2003) 8559

Francesca Gini, Federica Del Moro, Franco Macchia and Mauro Pineschi*

Dipartimento di Chimica Bioorganica e Biofarmacia, Università di Pisa, Via Bonanno 33, 56126 Pisa, Italy

The first catalytic enantioselective ring-opening of cyclic 2-alkenyl aziridines by dialkylzinc reagents is described.

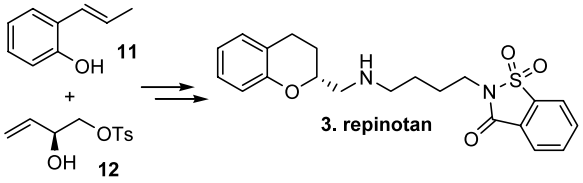


A concise stereospecific synthesis of repinotan (BAY × 3702)

Tetrahedron Letters 44 (2003) 8563

Jonathan L. Gross*

Chemical and Screening Sciences, Wyeth Research, CN 8000, Princeton, NJ 08543, USA



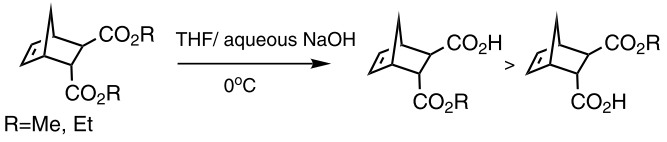
New *exo*/*endo* selectivity observed in monohydrolysis of dialkyl bicyclo[2.2.1]hept-5-ene-2,3-dicarboxylates

Tetrahedron Letters 44 (2003) 8567

Satomi Niwayama* and Yoshikazu Hiraga

Department of Chemistry, Oklahoma State University, Stillwater, OK 74078-3071, USA

Unique *exo* selectivities were observed during monohydrolyses of *exo* and/or *endo* dialkyl bicyclo[2.2.1]hept-5-ene-2,3-dicarboxylates.

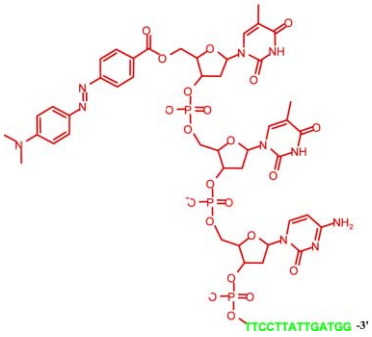


Tetrahedron Letters 44 (2003) 8571

Synthesis and characterisation of novel 3′-*O*- and 5′-*O*- modified azobenzene-thymidine phosphoramidites and their oligonucleotide conjugates as colorimeter DNA probes and FRET quenchers

Thorfinnur Gunnlaugsson,[a,*] John M. Kelly,[a,*] Mark Nieuwenhuyzen[b] and Aoife M. K. O'Brien[a]

[a]*Department of Chemistry, Trinity College Dublin, Dublin 2, Ireland*
[b]*School of Chemistry, Queen's University of Belfast, Belfast BT9 5AG, Northern Ireland, UK*

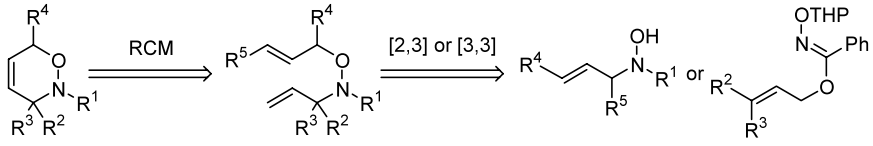


Tetrahedron Letters 44 (2003) 8577

Synthesis of unsaturated [1,2]oxazines by using sigmatropic rearrangements and the ring-closing metathesis reaction

Alexandre Le Flohic,[a] Christophe Meyer,[a] Janine Cossy[a,*] and Jean-Roger Desmurs[b]

[a]*Laboratoire de Chimie Organique, associé au CNRS, ESPCI, 10 rue Vauquelin, 75231 Paris Cedex 05, France*
[b]*Rhodia, Parfum et Spécialités, 190 avenue Thiers, 69457 Lyon Cedex 06, France*

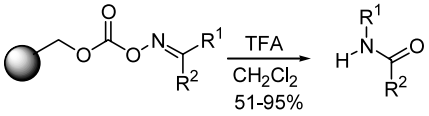


Tetrahedron Letters 44 (2003) 8581

Solid phase synthesis of amides by the Beckmann rearrangement of ketoxime carbonates

Sarah His,[a] Christophe Meyer,[a] Janine Cossy,[a,*] Gibert Emeric[b] and Alfred Greiner[b]

[a]*Laboratoire de Chimie Organique, associé au CNRS, ESPCI, 10 rue Vauquelin, 75231 Paris Cedex 05, France*
[b]*Bayer Cropscience SA, La Dargoire Research Center, 14-20 rue Pierre Baizet, BP 9163, Lyon Cedex 09, France*

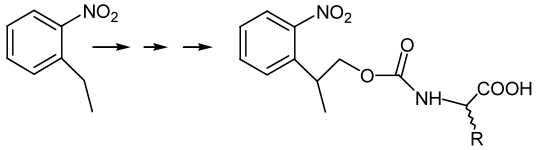


Tetrahedron Letters 44 (2003) 8585

Synthesis of photolabile 2-(2-nitrophenyl)propyloxycarbonyl protected amino acids

Kumar R. Bhushan,[a,b] Charles DeLisi[a] and Richard A. Laursen[b,*]

[a]*Department of Biomedical Engineering, Boston University, Boston, MA 02215, USA*
[b]*Department of Chemistry, Boston University, Boston, MA 02215, USA*

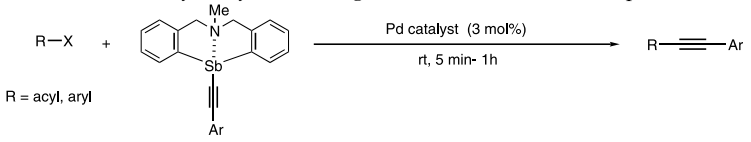


Tetrahedron Letters 44 (2003) 8589

Remarkable reactivity enhancement with Sb···N inter-coordination of ethynyl-1,5-azastibocines in Pd-catalyzed cross-coupling reactions with organic halides

Naoki Kakusawa,[a] Yoshinori Tobiyasu,[a] Shuji Yasuike,[a] Kentaro Yamaguchi,[b] Hiroko Seki[b] and Jyoji Kurita[a,*]

[a]*Faculty of Pharmaceutical Sciences, Hokuriku University, Kanagawa-machi, Kanazawa 920-1181, Japan*
[b]*Chemical Analysis Center, Chiba University, Yayoicho, Inage-ku, Chiba 263-8322, Japan*

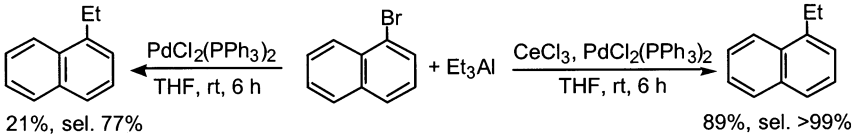


Tetrahedron Letters 44 (2003) 8593

Lanthanide assisted cross-coupling of aryl bromides with triethylaluminum

Margarita Shenglof,[a] Dmitri Gelman,[a] Gary A. Molander[b] and Jochanan Blum[a,*]

[a]*Department of Organic Chemistry, The Hebrew University, Jerusalem 91904, Israel*
[b]*Roy and Diana Vagelos Laboratories, Department of Chemistry, University of Pennsylvania, Philadelphia, Pennsylvania, PA 19104-6323, USA*

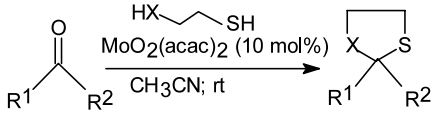


Tetrahedron Letters 44 (2003) 8597

A mild and efficient method for the protection of carbonyl compounds as oxathiolanes, dithiolanes and dithianes catalyzed by molybdenyl acetylacetonate

Kalyan Kumar Rana, Chandrani Guin, Samaresh Jana and Subhas Chandra Roy*

Department of Organic Chemistry, Indian Association for the Cultivation of Science, Jadavpur, Calcutta 700032, India

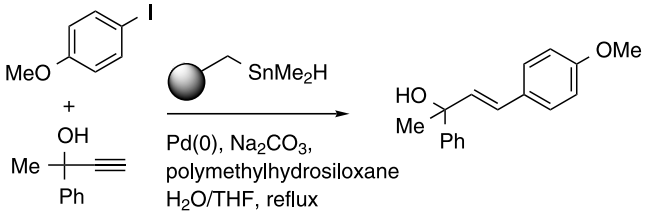


Tetrahedron Letters 44 (2003) 8601

Polymer-supported organotin reagents in the catalytic Stille reaction

Alejandro G. Hernán, Vincent Guillot, Alexander Kuvshinov and Jeremy D. Kilburn*

Combinatorial Centre of Excellence, Department of Chemistry, University of Southampton, Southampton SO17 1BJ, UK

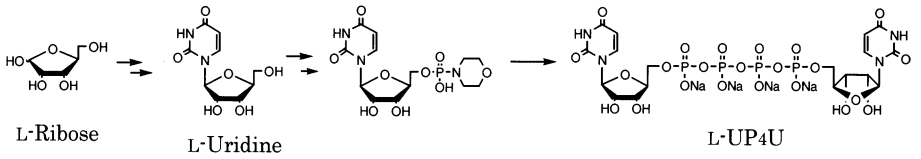


Tetrahedron Letters 44 (2003) 8605

First synthesis of enantio-uracil dinucleotide, comparison of physicochemical properties of their enantiomers, and separation by chiral column chromatography

Takanori Miyashita, Shinji Sakata and Hiroyuki Hayakawa*

Chemistry & Pharmacology Laboratory, Biochemicals Division, Yamasa Corporation, 10-1, Araoicho 2-Chome, Choshi, Chiba-Ken 288-0056, Japan

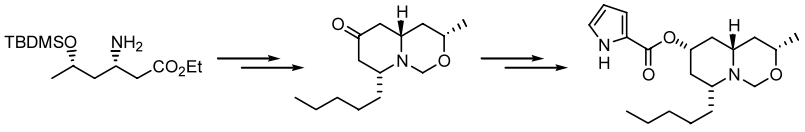


Tetrahedron Letters 44 (2003) 8609

Stereospecific total synthesis of (−)-8-*epi*-hyperaspine

Dawei Ma* and Wei Zhu

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



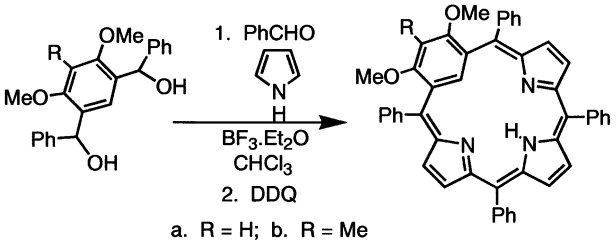
Tetrahedron Letters 44 (2003) 8613

Dimethoxytetraphenylbenziporphyrins

Joseph T. Szymanski and Timothy D. Lash*

Department of Chemistry, Illinois State University, Normal, IL 61790-4160, USA

Reaction of 1,3-dimethoxybenzene dicarbinols with benzaldehyde and pyrrole in the presence of boron trifluoride etherate affords good yields of dimethoxytetraphenylbenziporphyrins; these react with nickel(II) acetate to give stable organometallic derivatives.

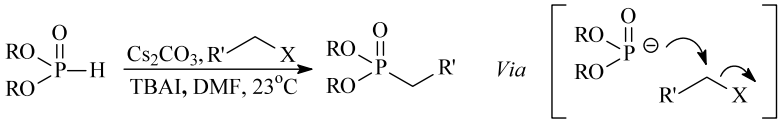


Tetrahedron Letters 44 (2003) 8617

Mild and efficient Cs_2CO_3-promoted synthesis of phosphonates

Richard J. Cohen, Daniel L. Fox, Jarrod F. Eubank and Ralph Nicholas Salvatore*

Department of Chemistry, Western Kentucky University, 1 Big Red Way, Bowling Green, KY 42101-3576, USA



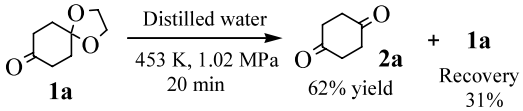
Hydrolysis of acetals in water under hydrothermal conditions

Tetrahedron Letters 44 (2003) 8623

Kimihiko Sato,[a] Tsutomu Kishimoto,[b] Minoru Morimoto,[b]
Hiroyuki Saimoto[b] and Yoshihiro Shigemasa[b,*]

[a]*Industrial Research Institute of Tottori Prefecture, 7-1-1 Wakabadai-minami, Tottori 689-1112, Japan*
[b]*Department of Materials Science, Faculty of Engineering, Tottori University, Koyama, Tottori 680-8552, Japan*

A simple method for the hydrolysis of acetals and ketals was accomplished in neutral water or aqueous media by hydrothermal treatment without using acidic reagents. The deacetalization reaction was effectively accelerated in the presence of calcium chloride. This sequence was successfully applied to the hydrolysis of chitosan.



One-pot facile conversion of Baylis–Hillman adduct into *N*-alkyl 3-(*E*)-alkylidene-5-substituted sulfonylpiperidine-2,6-dione. Formal synthesis of tacamonine

Tetrahedron Letters 44 (2003) 8627

Chung-Yi Chen,[a] Meng-Yang Chang,[b,*] Ru-Ting Hsu,[a] Shui-Tein Chen[c] and Nein-Chen Chang[a,*]

[a]*Department of Chemistry, National Sun Yat-Sen University, Kaohsiung 804, Taiwan, ROC*
[b]*Department of Applied Chemistry, National University of Kaohsiung, Kaohsiung 811, Taiwan, ROC*
[c]*Institute of Biological Chemistry, Academia Sinica, Nankang, Taipei 115, Taiwan, ROC*