

Synthesis of the methyl glycoside of a branched octasaccharide fragment specific for the *Shigella flexneri* serotype 2a O-antigen

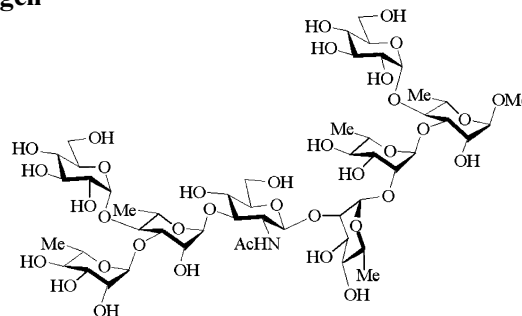
Tetrahedron Letters 43 (2002) 8215

Frédéric Bélot,^a Corina Costachel,^{a,b} Karen Wright,^a
Armelle Phalipon^b and Laurence A. Mulard^{a,*}

^aUnité de Chimie Organique, URA CNRS 2128, Institut Pasteur,
28 rue du Dr Roux, 75 724 Paris Cedex 15, France

^bUnité de Pathogénie Microbienne Moléculaire, INSERM U 389,
Institut Pasteur, 28 rue du Dr Roux, 75 724 Paris Cedex 15, France

The target octasaccharide was synthesized efficiently according to a strategy based on the condensation of a pentasaccharide acceptor and a trisaccharide donor as the key step.

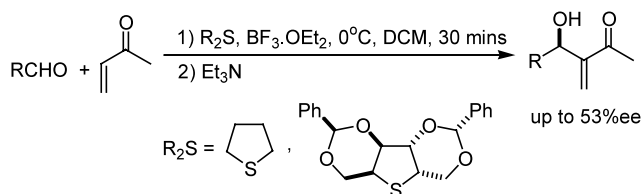


Sulfide-BF₃·OEt₂ mediated Baylis–Hillman reactions

Tetrahedron Letters 43 (2002) 8219

Louise M. Walsh, Caroline L. Winn and Jonathan M. Goodman*

Department of Chemistry, University of Cambridge, Lensfield Road, Cambridge CB2 1EW, UK



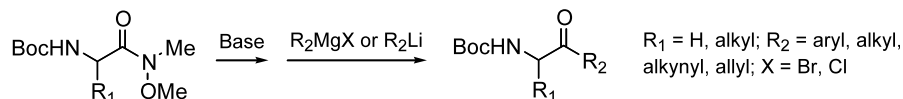
Improved syntheses of α -BOC-aminoketones from α -BOC-amino-Weinreb amides using a pre-deprotonation protocol

Tetrahedron Letters 43 (2002) 8223

Jinchu Liu,* Norihiro Ikemoto,* Daniel Petrillo and Joseph D. Armstrong, III

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

α -BOC-Aminoketones were prepared in good yields from α -BOC-amino-Weinreb amides that contain an exchangeable amino proton. By first deprotonating the amino group with simple bases, only a stoichiometric amount of nucleophile is needed. The procedure is more economical to run and purification is easier.



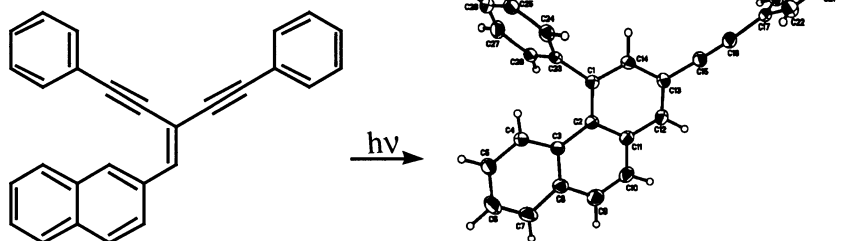
Photocyclization of a naphthyl substituted Y-enyne

Tetrahedron Letters 43 (2002) 8227

Bilal R. Kaafarani,^a Brigitte Wex,^a Jeanette A. Krause Bauer^b
and Douglas C. Neckers^{a,*}

^aCenter for Photochemical Sciences,
Bowling Green State University,
Bowling Green, OH 43403, USA

^bDepartment of Chemistry,
University of Cincinnati, Cincinnati,
OH 45221, USA



Keggin-type polyacid clusters on apatite: characteristic catalytic activities in solvent-free oxidation

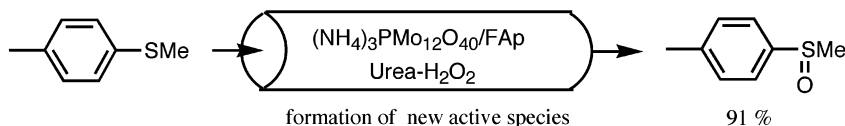
Tetrahedron Letters 43 (2002) 8231

Junko Ichihara,^{a,*} Shunro Yamaguchi,^a Takuya Nomoto,^a Hirokazu Nakayama,^b Katsuma Iteya,^c Nozomu Naitoh^c and Yoh Sasaki^{c,*}

^aInstitute of Scientific and Industrial Research, Osaka University, Mihogaoka, Ibaraki, Osaka 567-0047, Japan

^bKobe Pharmaceutical University, Motoyama-kitamachi, Higashinada, Kobe, Hyogo 658-8558, Japan

^cFaculty of Science and Engineering, Kinki University, Kowakae, Higashiosaka, Osaka 577-8502, Japan



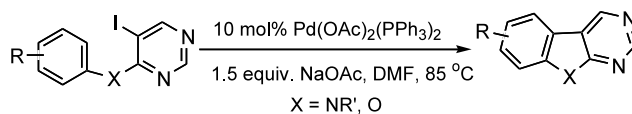
Synthesis of pyrimido[4,5-*b*]indoles and benzo[4,5]furo[2,3-*d*]pyrimidines via palladium-catalyzed intramolecular arylation

Tetrahedron Letters 43 (2002) 8235

Yue-Mei Zhang,^{*} Thomas Razler and Paul F. Jackson

Johnson & Johnson Pharmaceutical Research and Development, LLC, 1000 Route 202, Raritan, NJ 08869, USA

Various pyrimido[4,5-*b*]indoles and benzo[4,5]furo[2,3-*d*]pyrimidines were synthesized via a palladium-catalyzed intramolecular arylation of pyrimidine substrates. Thus, 4-aryloxy- or 4-anilino-5-iodopyrimidines were treated with Pd(OAc)₂(PPh₃)₂ and base in DMF to give the regioselective cyclized heterocycles.

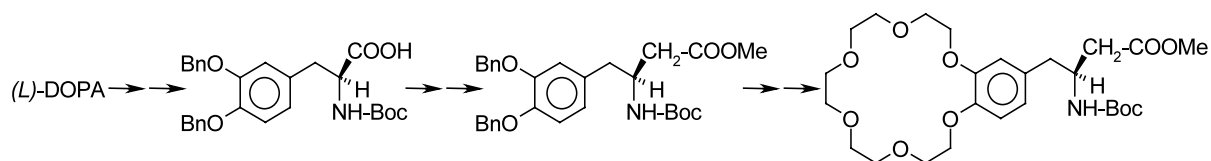


Synthesis of [18-C-6]-β³-(*L*)-DOPA, first β-amino acid with a crown-ether receptor side-chain

Tetrahedron Letters 43 (2002) 8241

Anne Gaucher, Olivier Barbeau, Wahib Hamchaoui, Lucie Vandromme, Karen Wright, Michel Wakselman and Jean-Paul Mazaleyrat^{*}

SIRCOB, ESA CNRS 8086, Bât. Lavoisier, University of Versailles, F-78000 Versailles, France



Three-step one-pot organobismuth-mediated synthesis of benzo[*b*]pyran compounds

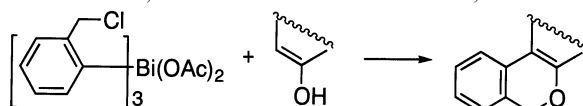
Tetrahedron Letters 43 (2002) 8245

Alexey V. Bolshakov,^a Olga G. Ganina,^a Andrew S. Shavirin,^b Yury A. Kurskii,^b Jean-Pierre Finet^{c,*} and Alexey Yu. Fedorov^{a,*}

^aDepartment of Organic Chemistry, Nizhny Novgorod State University, 23 Gagarin Avenue, 603950 Nizhny Novgorod, Russia

^bRazuvaev Institute of Organometallic Chemistry, Russian Academy of Sciences, GSP-445, 49 Tropinin Street, 603600 Nizhny Novgorod, Russia

^cUMR 6517 CNRS, Universités d'Aix-Marseille 1 et 3, Faculté des Sciences Saint-Jérôme, 13397 Marseille Cedex 20, France

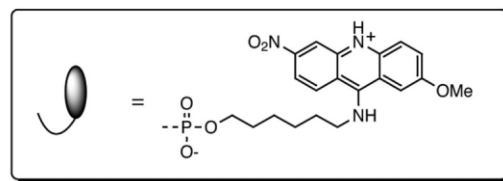
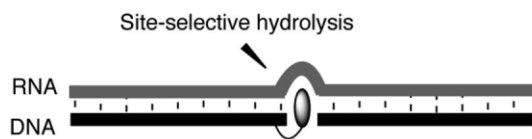


A highly acidic acridine for efficient site-selective activation of RNA leading to an eminent ribozyme mimic

Akinori Kuzuya, Kenzo Machida and Makoto Komiyama*

Research Center for Advanced Science and Technology, The University of Tokyo, 4-6-1 Komaba, Meguro, Tokyo 153-8904, Japan

Tetrahedron Letters 43 (2002) 8249

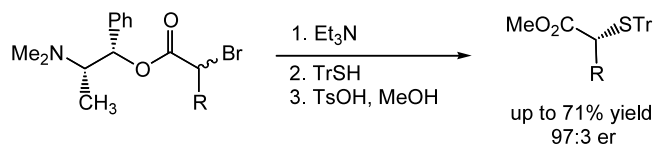


Asymmetric syntheses of α -mercapto carboxylic acid derivatives by dynamic resolution of *N*-methyl pseudoephedrine α -bromo esters

Jiyoun Nam, Sang-kuk Lee, Kee Yong Kim and Yong Sun Park*

Department of Chemistry, Konkuk University, Seoul 143-701, South Korea

Tetrahedron Letters 43 (2002) 8253

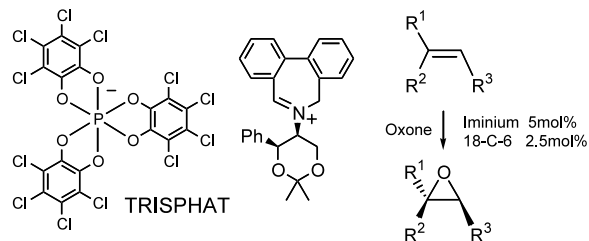


Effect of the medium on the oxaziridinium-catalyzed enantioselective epoxidation

Jerome Lacour,* David Monchaud and Claire Marsol

Département de Chimie Organique, Université de Genève, quai Ernest Ansermet 30, CH-1211 Genève 4, Switzerland

The combined use of lipophilic TRISPHAT counterions and 18-C-6 allows biphasic CH_2Cl_2 /water conditions, which can improve the enantioselectivity of the oxone-mediated oxaziridinium-catalyzed epoxidation.



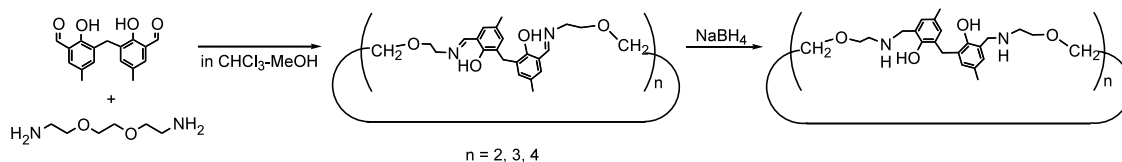
Tetrahedron Letters 43 (2002) 8257

Syntheses of large-membered macrocycles having multiple hydrogen bonding moieties

Hisashi Shimakoshi, Takayuki Kai, Isao Aritome and Yoshio Hisaeda*

Department of Chemistry and Biochemistry, Graduate School of Engineering, Kyushu University, Fukuoka 812-8581, Japan

Tetrahedron Letters 43 (2002) 8261



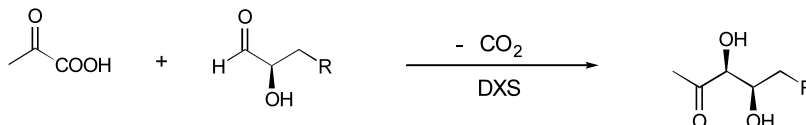
Enzymatic synthesis of 1-deoxysugar-phosphates using *E. coli* 1-deoxy-D-xylulose 5-phosphate synthase

Tetrahedron Letters 43 (2002) 8265

Jordi Querol,^a Catherine Grosdemange-Billiard,^b Michel Rohmer,^b Albert Boronat^a and Santiago Imperial^{a,*}

^aDepartament de Bioquímica i Biologia Molecular, Facultat de Química, Universitat de Barcelona, Martí i Franquès 1, 08028 Barcelona, Spain

^bUniversité Louis Pasteur/CNRS, Institut Le Bel, 4 rue Blaise Pascal, 67070 Strasbourg Cédex, France

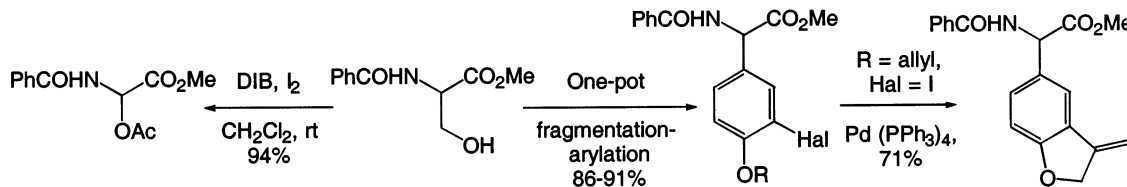


One-pot synthesis of aryl glycines and other unnatural amino acids from serine derivatives

Tetrahedron Letters 43 (2002) 8269

Alicia Boto,* Rosendo Hernández,* Adriana Montoya and Ernesto Suárez

Instituto de Productos Naturales y Agrobiología del C.S.I.C., Carretera de La Esperanza 3, 38206 La Laguna, Tenerife, Spain



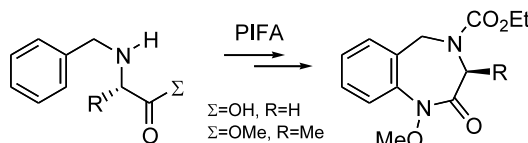
A novel and efficient iodine(III)-mediated access to 1,4-benzodiazepin-2-ones

Tetrahedron Letters 43 (2002) 8273

M. Teresa Herrero, Imanol Tellitu,* Esther Domínguez,* Isabel Moreno and Raúl SanMartín

Departamento de Química Orgánica II, Facultad de Ciencias, Universidad del País Vasco—Euskal Herriko Unibertsitatea (UPV/EHU), PO Box 644, 48080 Bilbao, Spain

A novel approach to the synthesis of 1,4-benzodiazepin-2-ones is presented.



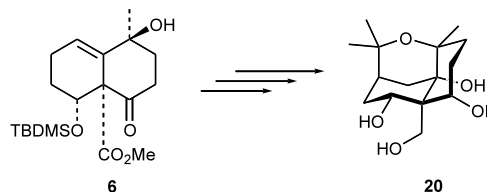
Synthesis of agarofuran antifeedants. Part 3: Synthesis of polyhydroxylated pyrano-agarofurans

Tetrahedron Letters 43 (2002) 8277

François-Didier Boyer,^a Charles Laurent Descoins,^a Charles Descoins,^a Thierry Prangé^b and Paul-Henri Ducrot^{a,*}

^aUnité de Phytopharmacie et Médiateurs Chimiques, Inra, Route de Saint-Cyr, 78026 Versailles Cedex, France

^bChimie Structurale Biomoléculaire (UMR 7033 CNRS), 93017 Bobigny Cedex, France



The synthesis of pyrano-agarofuran **20** is described using as key step the stereoselective epoxidation of a 6x-hydroxy-1,2,3,4,6,7,8,8a-octahydronaphthalene derived from **6**.

An alternative approach towards the syntheses of thioethers and thioesters using CsF–Celite in acetonitrile

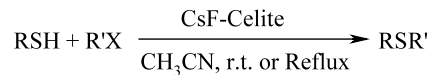
Tetrahedron Letters 43 (2002) 8281

Syed Tasadaque Ali Shah,^a Khalid Mohammed Khan,^b Angelica Martinez Heinrich^a and Wolfgang Voelter^{a,*}

^aAbteilung für Physikalische Biochemie des Physiologisch-chemischen Instituts der Universität, Tübingen, Hoppe-Seyler Straße 4, D-72076 Tübingen, Germany

^bHEJ Research Institute of Chemistry, International Center for Chemical Sciences, University of Karachi, Karachi-75270, Pakistan

The coupling reactions of a number of aliphatic, aromatic and heterocyclic compounds, bearing thiol groups, with alkyl, acyl or benzoyl halides in acetonitrile using cesium fluoride–Celite are described. It has been found that the CsF–Celite combination provides an efficient, convenient and practical method for syntheses of, both, thioethers and thioesters.



R = Phenyl or Benzyl

X = Cl, Br or I

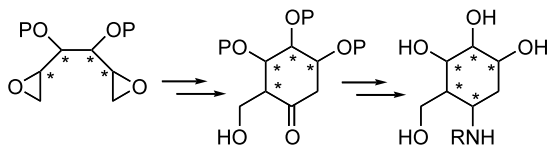
R' = Alkyl, Acyl, Benzyl or Benzoyl

New azadisaccharide analogs as potential antidiabetics

Tetrahedron Letters 43 (2002) 8285

Christine Gravier-Pelletier, William Maton and Yves Le Merrer*

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

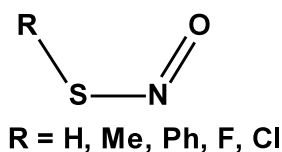


Negative hyperconjugative interactions in S-nitrosothiols: a theoretical study

Tetrahedron Letters 43 (2002) 8289

Prasad V. Bharatam* and Amita

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



On the role of β -fluorine substitution on the extent of core deformation of porphyrin dications

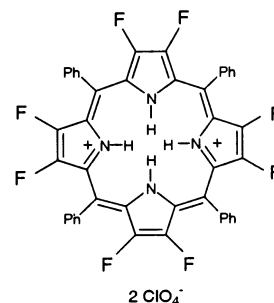
Tetrahedron Letters 43 (2002) 8293

Emmanuel Porhriel,^a Loïc Toupet,^b Jacques Leroy^c and Arnaud Bondon^{a,*}

^aLaboratoire de Chimie Organométallique et Biologique, UMR CNRS 6509, Université de Rennes 1, Campus de Beaulieu, F-35042 Rennes Cédex, France

^bGMCM, UMR CNRS 6626, Université de Rennes 1, F-35042 Rennes Cédex, France

^cDépartement de Chimie, Ecole Normale Supérieure, UMR CNRS 8640, F-75231 Paris Cédex 05, France

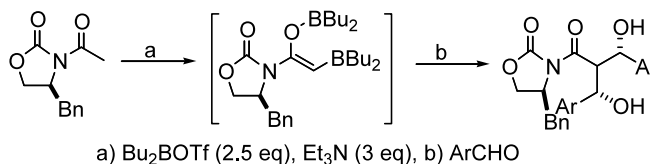


Asymmetric double aldol reaction of chiral acetyloxazolidinone

Tetrahedron Letters 43 (2002) 8297

Hiroshi Furuno, Tadashi Inoue and Atsushi Abiko*

Venture Laboratory, Kyoto Institute of Technology, Matsugasaki, Sakyo-ku, Kyoto 606-8585, Japan

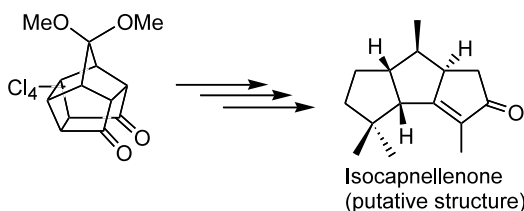


Total synthesis of the putative structure of the novel triquinane natural product isocapnellenone

Tetrahedron Letters 43 (2002) 8301

Goverdhan Mehta,* A. Sai Krishna Murthy and Jayant D. Umarye

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



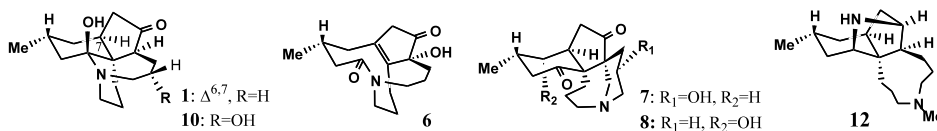
Seven new Lycopodium alkaloids, lycoserramines-C, -D, -E, -P, -Q, -S, and -U, from Lycopodium serratum Thunb.

Tetrahedron Letters 43 (2002) 8307

Hiromitsu Takayama,^{a,*} Kazuaki Katakawa,^a Mariko Kitajima,^a Kentaro Yamaguchi^b and Norio Aimi^a

^aGraduate School of Pharmaceutical Sciences, Chiba University, 1-33 Yayoi-cho, Inage-ku, Chiba 263-8522, Japan

^bAnalysis Center, Chiba University, 1-33 Yayoi-cho, Inage-ku, Chiba 263-8522, Japan



Iron(II)-promoted rearrangement of 1,4-diaryl-2,3-dioxabicyclo-[2.2.2]oct-5-enes: a mechanism distinct from that postulated previously

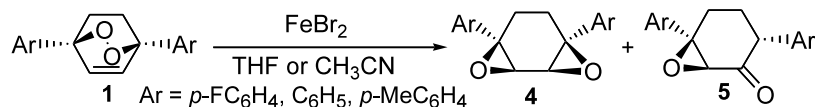
Tetrahedron Letters 43 (2002) 8313

Masaki Kamata,^{a,*} Chika Satoh,^a Hye-Sook Kim^b and Yusuke Wataya^b

^aDepartment of Chemistry, Faculty of Education and Human Science, Niigata University, Ikarashi, Niigata 950-2181, Japan

^bFaculty of Pharmaceutical Sciences, Okayama University, Tsushima, Okayama 700-8530, Japan

Reactions of **1** with FeBr_2 afforded diepoxides **4** and epoxyketones **5** as major products. A mechanism to elucidate the production of **4** and **5** was proposed.



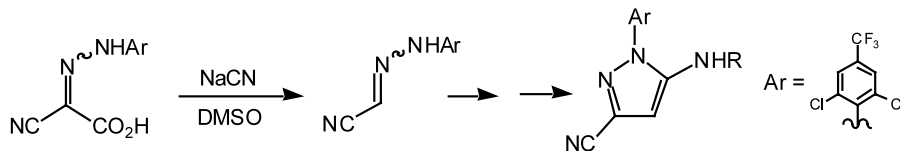
Studies towards the synthesis of Fipronil® analogues: improved decarboxylation of α -hydrazoneacid derivatives

Tetrahedron Letters 43 (2002) 8319

J. E. Ancel,^a L. El Kaïm,^{b,*} A. Gadras,^a L. Grimaud^b and N. K. Jana^b

^aCRIT-Rhones-Poulenc Industrialisation, 24 av. Jean Jaurès, 69153 Décines Charpieu Cedex, France

^bLaboratoire Chimie et Procédés, Ecole Nationale Supérieure de Techniques Avancées, 32 Bd Victor, 75015 Paris, France

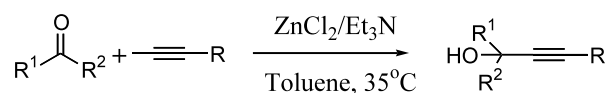


Alkynylation of carbonyl compounds with terminal acetylenes promoted by ZnCl₂ and Et₃N: simple, mild and efficient preparation of propargylic alcohols

Tetrahedron Letters 43 (2002) 8323

Biao Jiang* and Yu-Gui Si

State Key Laboratory of Organometallic Chemistry, Shanghai Institute of Organic Chemistry, Chinese Academy of Sciences, 354 Fenglin Road, Shanghai 200032, PR China



Solid phase synthesis of 3,5-disubstituted oxazolidin-2-ones

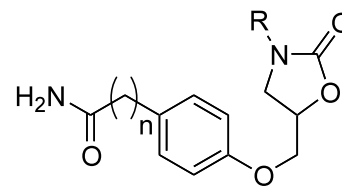
Tetrahedron Letters 43 (2002) 8327

S. K. Rastogi,^a G. K. Srivastava,^a S. K. Singh,^a R. K. Grover,^b R. Roy^b and B. Kundu^{a,*}

^aMedicinal Chemistry Division, Central Drug Research Institute, Lucknow 226 001, India

^bNMR Lab, Division of RSIC, Central Drug Research Institute, Lucknow 226 001, India

A versatile method for the solid phase synthesis of oxazolidin-2-ones has been described. A resin bound phenolic group was treated with (\pm)-epichlorohydrin followed by opening of the epoxide ring with sodium azide. The resulting 1-azido-3-aryloxypropan-2-ol was treated with *p*-nitrophenylchloroformate and subsequent Staudinger's cyclization using PPh₃ yielded the 5-substituted oxazolidinone. Finally, additional diversity at position 3 was introduced by treating the 5-substituted oxazolidinone with alkyl halides in the presence of NaH to give the desired compounds in high yields and purities.



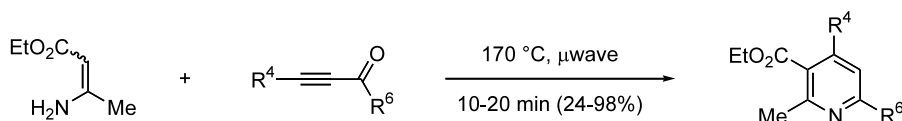
A new one-step synthesis of pyridines under microwave-assisted conditions

Tetrahedron Letters 43 (2002) 8331

Mark C. Bagley,* Rebecca Lunn and Xin Xiong

Department of Chemistry, Cardiff University, PO Box 912, Cardiff CF10 3TB, UK

Highly substituted pyridines were prepared in good yield and with total regiocontrol in a single synthetic step by the microwave-assisted Michael addition-cyclodehydration of ethyl β -aminocrotonate and an alkyne.



Direct condensation of carboxylic acids with polyethylene glycols catalyzed by Sc(OTf)₃

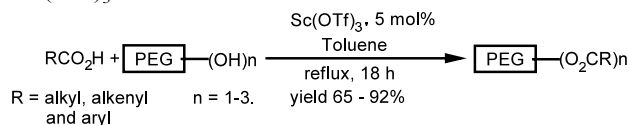
Tetrahedron Letters 43 (2002) 8335

S. Chandrasekhar,^{a,*} S. Shameem Sultana,^a Ch. Narsihmulu,^a J. S. Yadav,^a R. Gree^b and J. C. Guillemin^b

^aIndian Institute of Chemical Technology, Hyderabad 500 007, India

^bENSCR, Laboratoire de Synthèses et Activations de biomolécules, CNRS UMR 6052, Av du G Leclerc, 35700 Rennes, France

The first esterification of a soluble polymer by condensation of equimolar amounts of carboxylic acids and polyethylene glycols is achieved using catalytic Sc(OTf)₃ in toluene.



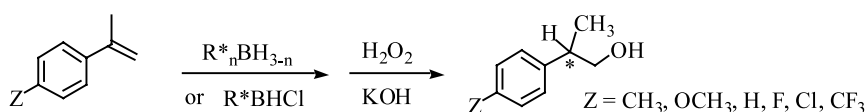
Electronic effects in asymmetric hydroboration

Tetrahedron Letters 43 (2002) 8339

Charles M. Garner,^{*} Shirley Chiang, Matthew Nething and Robert Monestel

Department of Chemistry, Baylor University, Waco, TX 76798, USA

The asymmetric hydroboration of a series of *para*-substituted 1-arylpropenes with four chiral boranes was studied. A significant electronic effect was observed with a chloroborane–ether complex, but not for any simple alkylboranes.



A new tag reagent for efficient capping and easy separation of deletion peptides

Tetrahedron Letters 43 (2002) 8343

Nikos Vavourakis,^a Leondios Leondiadis^b and Nikolaos Ferderigos^{a,*}

^aLaboratory of Organic Chemistry, Chemistry Department, University of Athens, Athens 157 71, Greece

^bMass Spectrometry and Dioxin Analysis Laboratory, IRRP, National Centre for Scientific Research 'Demokritos', Athens 153 10, Greece

N-(Biphenyl-4-carbonyl)-L-proline was tested as a new capping reagent. The reagent was successfully used in the synthesis of the classic difficult sequence, acyl carrier protein (65–74). Due to both its reactivity and its lipophilic nature, it can be used as a tag for the deletion peptides in the sequence dependent difficult synthesis and in the automated synthesis of a longer peptide, facilitating the purification of the target peptide.

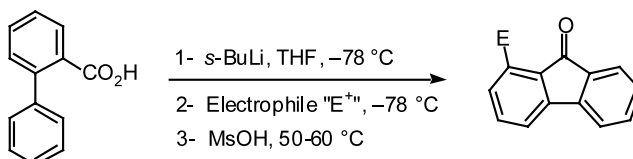
Combined directed *ortho* metalation—intramolecular Friedel–Crafts connections. Regiospecific route to 1-substituted fluoren-9-ones

Tetrahedron Letters 43 (2002) 8347

David Tilly,^a Subhendu S. Samanta,^a Ferenc Faigl^b and Jacques Mortier^{a,*}

^aUniversité du Maine and CNRS, Unité de chimie organique moléculaire et macromoléculaire (UMR 6011), Faculté des sciences, avenue Olivier Messiaen, 72085 Le Mans Cedex 9, France

^bDepartment of Organic Chemical Technology, Technical University of Budapest, 1521 Budapest, Hungary

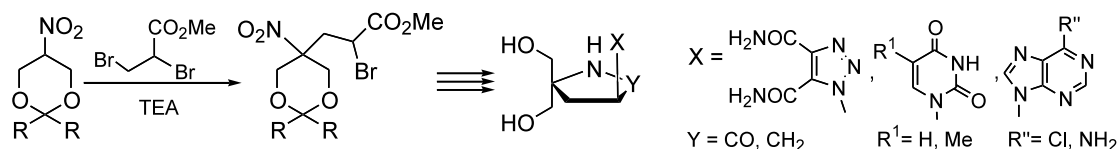


Synthesis of (±)-branched-chain azaisonucleosides via Michael addition of 5-nitro-2,2-pentamethylene-1,3-dioxane to methyl 2-bromoacrylate

Tetrahedron Letters 43 (2002) 8351

Ewa Mironiuk-Puchalska, Ewa Kołaczowska and Wojciech Sas*

Warsaw University of Technology, Faculty of Chemistry, ul. Noakowskiego 3, 00-664 Warszawa, Poland

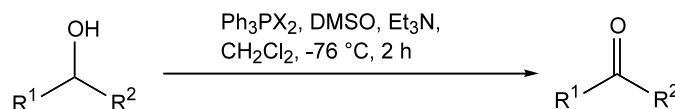


An alternative to the Swern oxidation

Tetrahedron Letters 43 (2002) 8355

Alakesh Bisai, M. Chandrasekhar and Vinod K. Singh*

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



Synthesis of orthogonally protected lanthionines: a reassessment of the use of alanyl β-cation equivalents

Tetrahedron Letters 43 (2002) 8359

M. Firouz Mohd Mustapa,^a Richard Harris,^{b,c} Jessica Mould,^d Nathan A. L. Chubb,^d Darren Schultz,^d Paul C. Driscoll^{b,c,e} and Alethea B. Tabor^{a,*}

^aDepartment of Chemistry, University College London,

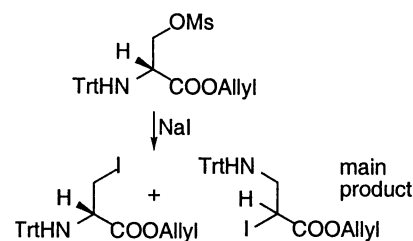
Christopher Ingold Laboratories, 20 Gordon Street, London WC1H 0AJ, UK

^bDepartment of Biochemistry and Molecular Biology, University College London, Darwin Building, Gower Street, London WC1E 6BT, UK

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^eLudwig Institute for Cancer Research, 91, Riding House Street, London W1W 7BS, UK



Synthesis of cyclic peptides containing nor-lanthionine bridges via a triply-orthogonal protecting group strategy

Tetrahedron Letters 43 (2002) 8363

M. Firouz Mohd Mustapa,^a Richard Harris,^{b,c} Jessica Mould,^d Nathan A. L. Chubb,^d Darren Schultz,^d Paul C. Driscoll^{b,c,e} and Alethea B. Tabor^{a,*}

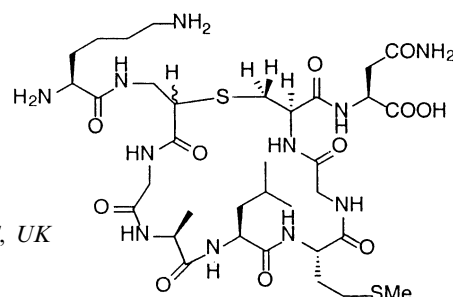
^aDepartment of Chemistry, University College London, 20 Gordon Street, London WC1H 0AJ, UK

^bDepartment of Biochemistry and Molecular Biology, University College London, Darwin Building, Gower Street, London WC1E 6BT, UK

^cBloomsbury Centre for Structural Biology, Department of Biochemistry and Molecular Biology, University College London, Gower Street, London WC1E 6BT, UK

^dPfizer Limited, Sandwich, Kent CT13 9NJ, UK

^eLudwig Institute for Cancer Research, 91, Riding House Street, London W1W 7BS, UK



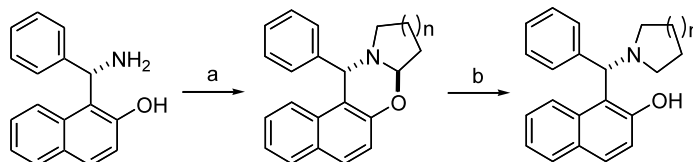
Synthesis of chiral ligands derived from the Betti base and their use in the enantioselective addition of diethylzinc to aromatic aldehydes

Tetrahedron Letters 43 (2002) 8367

Jun Lu,^a Xuenong Xu,^a Cunde Wang,^a Jiangang He,^b Yuefei Hu^{a,*} and Hongwen Hu^a

^aDepartment of Chemistry, Nanjing University, Nanjing 210093, People's Republic of China

^bAnalytical Center of China Inspection & Quality Bureau, Nanjing 210001, People's Republic of China



a. $\text{OHC}(\text{CH}_2)_m\text{CHO}/\text{NaBH}_3\text{CN}/51\text{-}61\%$; b. $\text{LiAlH}_4/\text{THF}/94\text{-}98\%$
 $m = 2, 3, 4$; $n = 1, 2, 3$

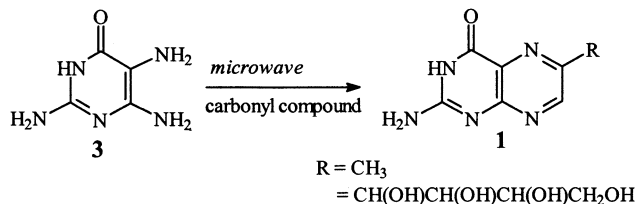
The first microwave-assisted regioselective synthesis of 6-substituted pterins

Tetrahedron Letters 43 (2002) 8371

Shyamaprosad Goswami* and Avijit Kumar Adak

Department of Chemistry, Bengal Engineering College (Deemed University), Howrah 711 103, West Bengal, India

Microwave-assistance has been used in the Isay condensation for the synthesis of 6-substituted pterins and 2-substituted quinoxalines.



Synthesis, structure and nonlinear optical properties of some chiral chromophores derived from L-proline

Tetrahedron Letters 43 (2002) 8375

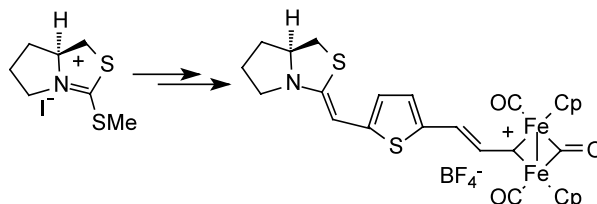
Richard D. A. Hudson,^a Anthony R. Manning,^{a,*} John F. Gallagher,^{b,*} Maria-Helena Garcia,^c Nelson Lopes,^c Inge Asselberghs,^d Roel Van Boxel^d and Andre Persoons^d

^aDepartment of Chemistry, University College Dublin, Belfield, Dublin 4, Ireland

^bSchool of Chemical Sciences, Dublin City University, Dublin 9, Ireland

^cComplexo 1, IST, Av. Rovisco Pais, 1049-001, Lisboa Codex, Portugal

^dKatholieke Universiteit Leuven, Celestijnenlaan 200D, B3001 Leuven, Belgium



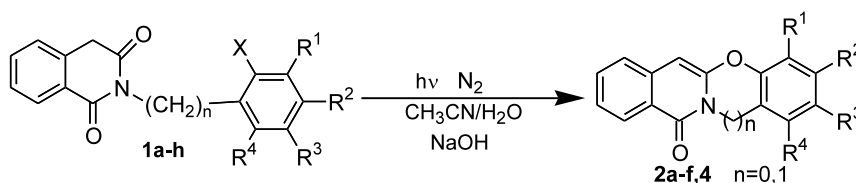
A new photochemical synthesis of benzoxazo[3,2-*b*]isoquinolin-11-one and isoquinolino[3,2-*b*][1,3]benzoxazin-11-one

Tetrahedron Letters 43 (2002) 8379

Annamalai Senthilvelan and Vayalakkavoor T. Ramakrishnan*

Department of Organic Chemistry, School of Chemical Sciences, University of Madras, Guindy Campus, Chennai 600 025, India

Photocyclization of substituted tetrahydroisoquinoline-1,3-diones, under base-mediated conditions, afforded benzoxazo[3,2-*b*]isoquinolin-11-ones and an isoquinolino[3,2-*b*]benzoxazin-11-one.

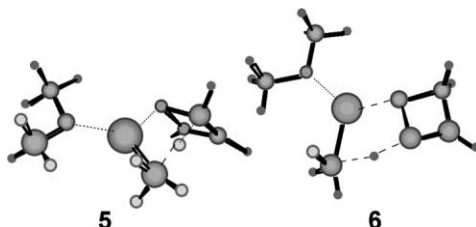


Density functional theory investigation of the deprotonation of oxete

Tetrahedron Letters 43 (2002) 8383

Zhiqing Yan and John F. Sebastian*

Department of Chemistry and Biochemistry, Miami University, Oxford, OH 45056, USA



One-step synthesis of a new eight-membered cyclic ligand from glycine, formaldehyde and hypophosphorous acid

Tetrahedron Letters 43 (2002) 8387

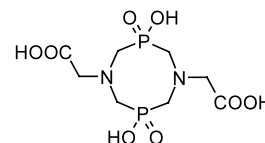
Silvio Aime,^a Camilla Cavallotti,^b Eliana Gianolio,^a Giovanni B. Giovenzana,^{c,*} Giovanni Palmisano^b and Massimo Sisti^b

^aDipartimento di Chimica I.F.M., Via Giuria 7, 10125 Torino, Italy

^bDipartimento di Scienze Chimiche Fisiche e Matematiche, Via Valleggio 11, 22100 Como, Italy

^cDipartimento di Scienze Chimiche Alimentari Farmaceutiche e Farmacologiche, Via Bovio 6, 28100 Novara, Italy

The eight-membered ligand 3,7-dihydroxy-3,7-dioxoperhydro-1,5,3,7-diazadiphosphocine-1,5-diacetic acid was obtained with a one-step reaction of glycine, formaldehyde and hypophosphorous acid in acidic aqueous medium.



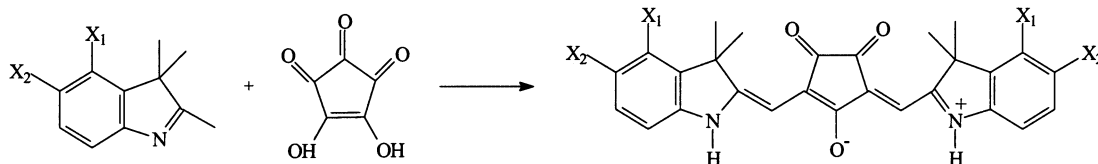
Croconines: new acidochromic dyes for the near infrared region

Tetrahedron Letters 43 (2002) 8391

Cristina Encinas,^a Elena Otazo,^b Laia Rivera,^a Serguei Miltsov^a and Julián Alonso^{a,*}

^aGrup de Sensors i Biosensors, Unitat de Química Analítica, Universitat Autònoma de Barcelona, 08193 Bellaterra, Spain

^bInstituto de Materiales y Reactivos, Universidad de la Habana, 10400 Ciudad de la Habana, Cuba



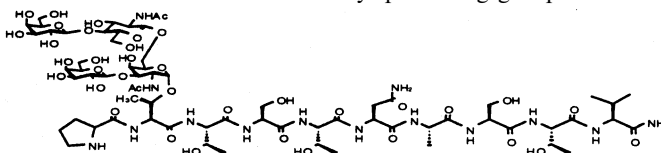
Preparation of core 2 type tetrasaccharide carrying decapeptide by benzyl protection-based solid-phase synthesis strategy

Tetrahedron Letters 43 (2002) 8395

Yutaka Takano, Motoki Habiro, Masaomi Someya, Hironobu Hojo and Yoshiaki Nakahara*

Institute of Glycotechnology, Department of Applied Biochemistry, Tokai University, Kitakaname 1117, Hiratsuka, Kanagawa 259-1292, Japan

Stereocontrolled synthesis of the core 2 tetrasaccharides, solid-phase synthesis of a glycopeptide segment with the tetrasaccharide building block, and efficient removal of the benzyl protecting group are described.

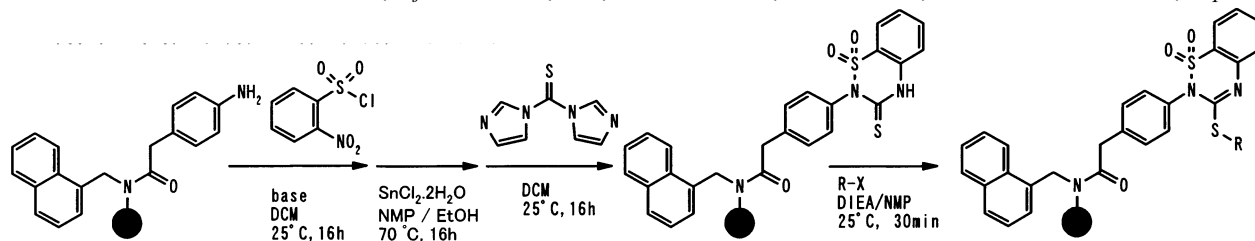


Solid-phase synthesis of 2-substituted-3-(substituted sulfanyl)-1,2,4-benzothiadiazine 1,1-dioxide library

Tetrahedron Letters 43 (2002) 8401

Shingo Makino,* Tatsuya Okuzumi, Eiji Nakanishi and Takashi Tsuji

Pharmaceutical Research Laboratories, Ajinomoto Co., Inc., 1-1 Suzuki-cho, Kawasaki-ku, Kawasaki-shi 210-8681, Japan

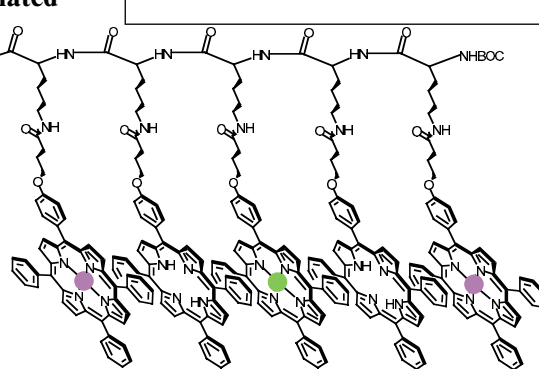
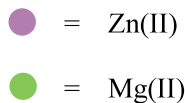


Novel porphyrinic peptides with assigned sequence of metallated chromophores, a further step towards redox switches

Tetrahedron Letters 43 (2002) 8405

Nicolas Aubert, Vincent Troiani, Maurice Gross and Nathalie Solladié*

Laboratoire d'Electrochimie et de Chimie Physique du Corps Solide, Université Louis Pasteur et CNRS, 4 rue Blaise Pascal, 67000 Strasbourg, France



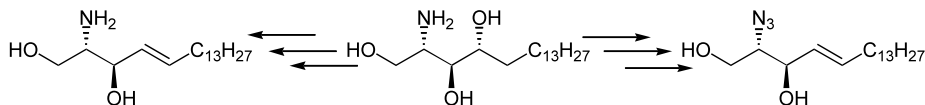
A simple and low cost synthesis of D-erythro-sphingosine and D-erythro-azidosphingosine from D-ribo-phytosphingosine: glycosphingolipid precursors

Tetrahedron Letters 43 (2002) 8409

Richard J. B. H. N. van den Berg,^a Cornelis G. N. Korevaar,^a Gijsbert A. van der Marel,^b Herman S. Overkleeft^b and Jacques H. van Boom^{b,*}

^aCosmoferm B.V., PO Box 386, 2600 AJ Delft, Netherlands

^bLeiden Institute of Chemistry, Leiden University, PO Box 9502, 2300 RA Leiden, Netherlands

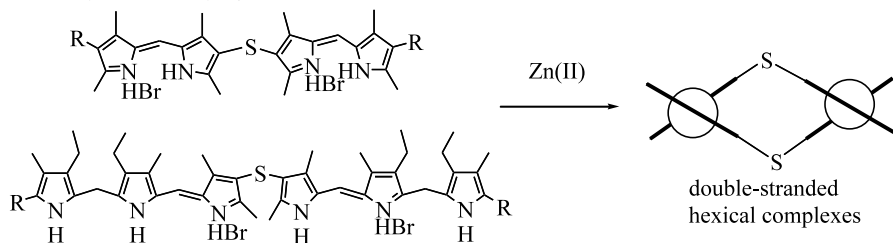


Synthesis and self-assembly of novel tetra- and hexapyrroles containing dipyrrens linked by a sulfur bridge at the β-position

Tetrahedron Letters 43 (2002) 8413

Qingqi Chen, Yongjun Zhang and David Dolphin*

Department of Chemistry, University of British Columbia, 2036 Main Mall, Vancouver, BC, Canada V6T 1Z1



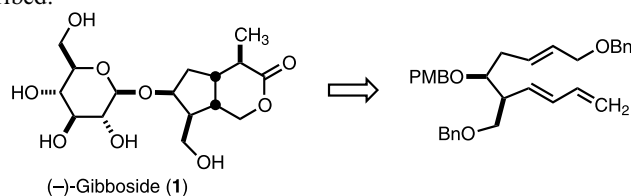
Iron-catalyzed enediene carbocyclizations. The total synthesis of (-)-gibboside

Tetrahedron Letters 43 (2002) 8417

James M. Takacs,* Suresh Vayalakkada, Steven J. Mehrman and Celia L. Kingsbury

Department of Chemistry, University of Nebraska–Lincoln, Lincoln, NE 68588-0304, USA

The total synthesis of (-)-gibboside via a route that features the diastereoselective iron-catalyzed carbocyclization of a chiral enediene substrate is described.

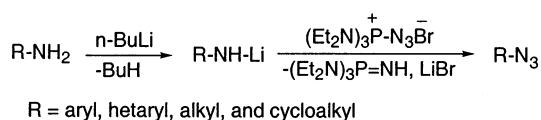


Conversions of primary amines to azides by *n*-butyllithium and azidotris(diethylamino)phosphonium bromide

Tetrahedron Letters 43 (2002) 8421

Stephen P. Klump and Harold Shechter*

Department of Chemistry, The Ohio State University, Columbus, OH 43210, USA



Conversions of hydrazones to diazo compounds by *n*-butyllithium and azidotris(diethylamino)phosphonium bromide

Tetrahedron Letters 43 (2002) 8425

Mark McGuiness and Harold Shechter*

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