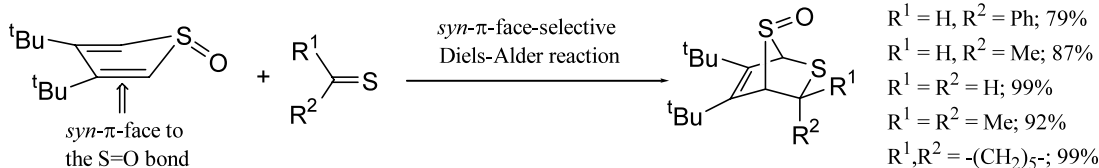


π -Face-selective hetero Diels–Alder reactions of 3,4-di-*tert*-butylthiophene 1-oxide. An excellent trapping reagent for thioaldehydes and thioketones

Tetrahedron Letters 44 (2003) 5159

Jun Takayama, Seiko Fukuda, Yoshiaki Sugihara, Akihiko Ishii and Juzo Nakayama*

Department of Chemistry, Faculty of Science, Saitama University, Sakura-ku, Saitama, Saitama 338-8570, Japan



Soluble precursors convertible to tetrabenzoporphyrins below room temperature

Tetrahedron Letters 44 (2003) 5163

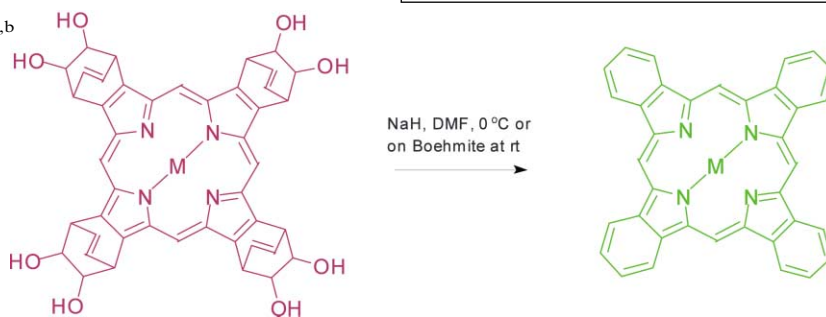
Hidemitsu Uno,^{a,*} Takayuki Ishikawa,^{a,b}
Toru Hoshi^a and Noboru Ono^c

^a*Division of Synthesis and Analysis, Department of Molecular Science, Integrated Center for Science, Ehime University, Bunkyo-cho 2-5, Matsuyama 790-8577, Japan*

^b*Material Development Center, Canon Inc., 16-1 Shimonoge 3-chome, Takatsu-ku, Kawasaki 213-8512, Japan*

^c*Department of Chemistry, Faculty of Science, Ehime University, Bunkyo-cho 2-5, Matsuyama 790-8577, Japan*

Soluble precursors were quantitatively converted to TBPs below rt.



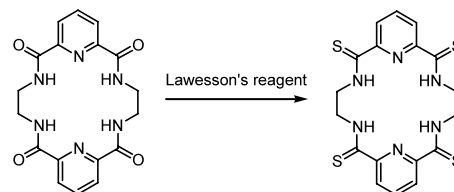
Preparation of a new receptor for anions, macrocyclic polythiolactam—structure and high anion-binding ability

Tetrahedron Letters 44 (2003) 5167

Yoshihiko Inoue, Takaki Kanbara* and Takakazu Yamamoto*

Chemical Resources Laboratory, Tokyo Institute of Technology, 4259 Nagatsuta, Midori-ku, Yokohama 226-8503, Japan

Thiocarbonylation of a macrocyclic tetralactam gave a new macrocyclic tetrathiolactam. The chemical transformation enhances hydrogen-bonding ability of the N–H protons in the cavity of the macrocycle, and provides strong affinity toward anions. The association properties of the polythiolactam with anions was examined, and molecular structures of the macrocycle and its Cl[−] complex were determined.

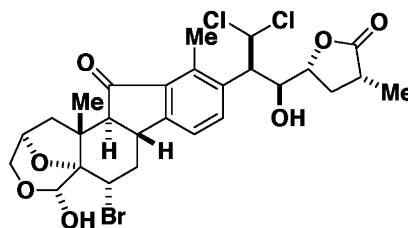


Nakiterpiosin, a novel cytotoxic C-nor-D-homosteroid from the Okinawan sponge *Terpios hoshinota*

Tetrahedron Letters 44 (2003) 5171

Toshiaki Teruya, Satoru Nakagawa, Tomoyuki Koyama,
Kiyotake Suenaga, Masaki Kita and Daisuke Uemura*

Department of Chemistry, Graduate School of Science, Nagoya University, Chikusa, Nagoya 464-8602, Japan

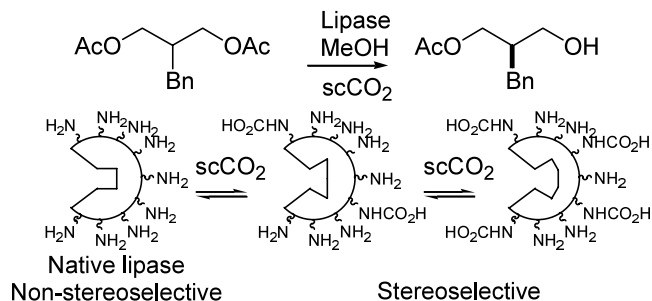


Novel strategic lipase-catalyzed asymmetrization of 1,3-propanediacetate in supercritical carbon dioxide

Nobuyuki Mase, Takeshi Sako, Yoshiteru Horikawa and Kunihiko Takabe*

Department of Molecular Science, Faculty of Engineering, Shizuoka University, 3-5-1 Johoku, Hamamatsu 432-8561, Japan

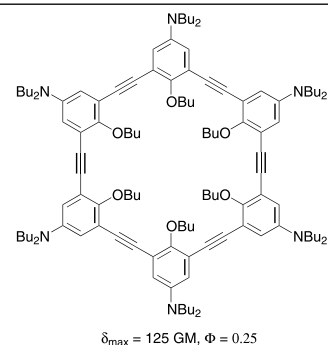
No enantioselectivity was observed in conventional organic solvent, whereas in scCO_2 enantioselectivities were observed up to 50% ee, which probably arose from a conformational changing of lipase.



Synthesis and two-photon absorption property of phenylacetylene macrocycles

Ok Soon Pyun, Wenjun Yang, Mi-Yun Jeong, Sang Hae Lee, Kyung Min Kang, Seung-Joon Jeon and Bong Rae Cho*

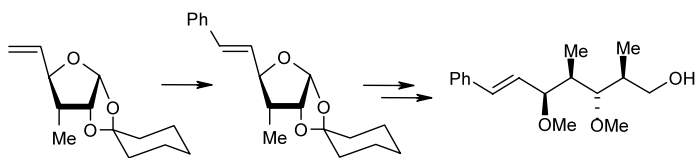
Molecular Opto-Electronics Laboratory, Department of Chemistry and Center for Electro- and Photo-Responsive Molecules, Korea University, 1-Anamdong, Seoul 136-701, Republic of Korea



Carbohydrate-based synthesis of crocacin: stereoselective Heck reaction of carbohydrate 5,6-ene- and 5,6-yne-derivatives with aromatic halides

Mukund K. Gurjar,* Tushar P. Khaladkar, Ramdas G. Borhade and A. Murugan

National Chemical Laboratory, Pune 411 008, India

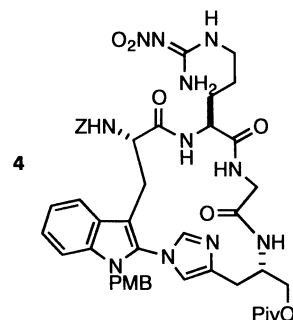


The Horner–Wadsworth–Emmons reaction in the synthesis of macrocyclic peptides: the Trp-His-Gly-Arg derived macrocycle of moroidin

Justin R. Harrison and Christopher J. Moody*

School of Chemistry, University of Exeter, Stocker Road, Exeter EX4 4QD, UK

The Trp-His-Gly-Arg derived macrocycle **4** of moroidin containing the unusual tryptophan C-2 histidine N-1 link has been synthesised in protected form.

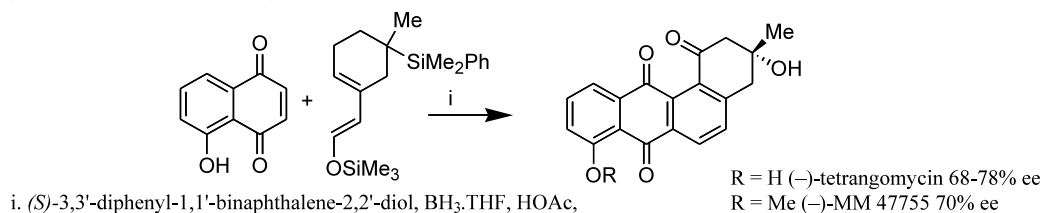


Remote stereochemical control in asymmetric Diels–Alder reactions: synthesis of the angucycline antibiotics, (–)-tetrangomycin and MM 47755

Tetrahedron Letters 44 (2003) 5193

John S. Landells, David S. Larsen* and Jim Simpson

Department of Chemistry, University of Otago, PO Box 56 Dunedin, New Zealand

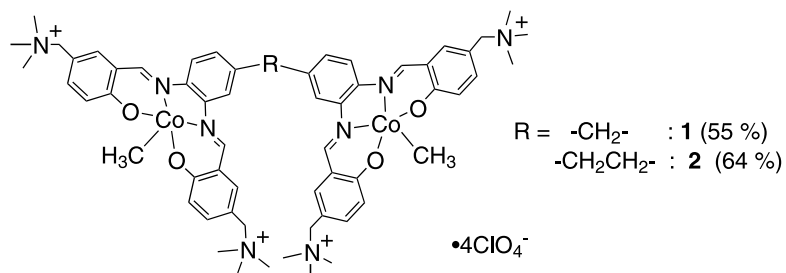


Syntheses of new water-soluble dicobalt complexes having two cobalt–carbon bonds and their ability for DNA cleavage

Tetrahedron Letters 44 (2003) 5197

Hisashi Shimakoshi, Takeshi Kaieda, Takashi Matsuo, Hideaki Sato and Yoshio Hisaeda*

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

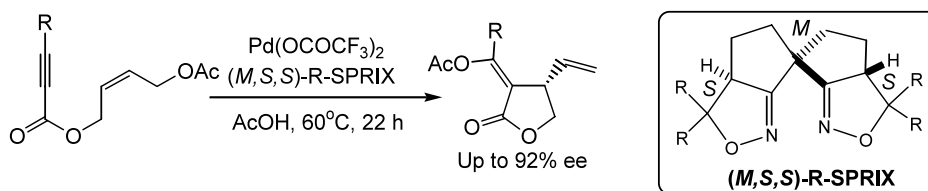


Enantioselective synthesis of α-methylene-γ-butyrolactones using chiral Pd(II)-SPRIX catalyst

Tetrahedron Letters 44 (2003) 5201

Chinnasamy Muthiah, Midori A. Arai, Toshio Shinohara, Takayoshi Arai, Shinobu Takizawa and Hiroaki Sasai*

The Institute of Scientific and Industrial Research, Osaka University, Mihogaoka, Ibaraki, Osaka 567-0047, Japan



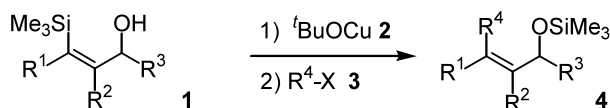
Copper(I) *tert*-butoxide-promoted stereospecific alkylation of β-hydroxymethylvinylsilanes with alkyl halides

Tetrahedron Letters 44 (2003) 5205

Haruhiko Taguchi, Akira Tsubouchi and Takeshi Takeda*

Department of Applied Chemistry, Tokyo University of Agriculture and Technology, Koganei, Tokyo 184-8588, Japan

Stereospecific alkylation of (Z)-β-hydroxymethylvinylsilanes **1** proceeded by treatment with copper(I) *tert*-butoxide **2** and alkyl halides **3** to give the tri- and tetra-substituted olefins **4**.

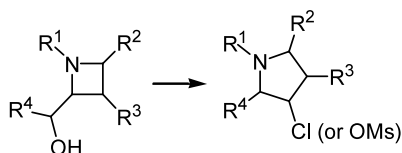


Highly stereoselective ring expansion of enantiopure α -hydroxyalkyl azetidines

Tetrahedron Letters 44 (2003) 5209

François Couty,* François Durrat and Damien Prim

Laboratoire SIRCOB, UMR CNRS 8086, Bâtiment Lavoisier, Université de Versailles, 45, avenue des Etats-Unis, F-78035 Versailles Cedex, France



Mild reduction of chlorophosphine boranes to secondary phosphine boranes

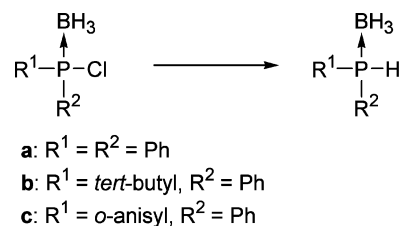
Tetrahedron Letters 44 (2003) 5213

Hubert Lam,^a David J. Aldous^b and King Kuok (Mimi) Hii^{a,*}

^aDepartment of Chemistry, King's College London, Strand WC2R 2LS, UK

^bAventis Pharmaceuticals, Route 202-206, Bridgewater, NJ 08807, USA

A number of hydride reagents were assessed in the transformation of chlorophosphine boranes to secondary phosphine boranes.



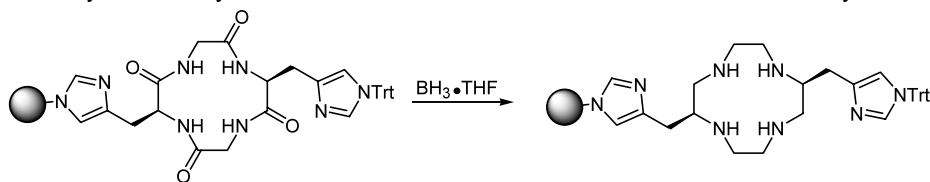
Solid-phase approach to the synthesis of cyclen scaffolds from cyclotetrapeptides

Tetrahedron Letters 44 (2003) 5217

Maria C. Alcaro, Marco Orfei, Mario Chelli, Mauro Ginanneschi and Anna M. Papini*

Dipartimento di Chimica Organica 'Ugo Schiff' and CNR-ICCOM, Polo Scientifico, via della Lastruccia 13, I-50019 Sesto Fiorentino (FI), Italy

A cyclen derivative was synthesized by on-resin reduction of a side-chain anchored head-to-tail cyclotetrapeptide.



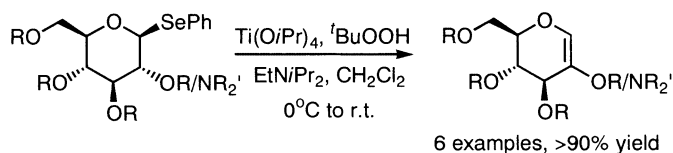
Efficient one-step synthesis of 2-hydroxy and 2-aminoglycols from selenoglycosides

Tetrahedron Letters 44 (2003) 5221

David J. Chambers,^a Graham R. Evans^b and Antony J. Fairbanks^{a,*}

^aDyson Perrins Laboratory, Oxford University, South Parks Road, Oxford OX1 3QY, UK

^bCelltech R & D, Granta Park, Great Abington, Cambridge CB1 6GS, UK



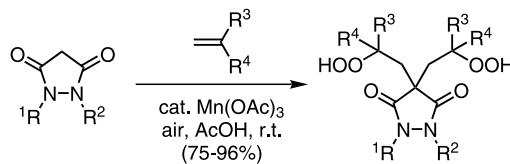
Synthesis of 4,4-bis(2-hydroperoxyalkyl)pyrazolidine-3,5-diones using manganese(III)-catalyzed autoxidation

Tetrahedron Letters 44 (2003) 5225

Md. Taifur Rahman,^a Hiroshi Nishino^{b,*} and Chang-Yi Qian^a

^aDepartment of Materials and Life Science, Graduate School of Science and Technology, Kumamoto University, Kurokami 2-39-1, Kumamoto 860-8555, Japan

^bDepartment of Chemistry, Faculty of Science, Kumamoto University, Kurokami 2-39-1, Kumamoto 860-8555, Japan

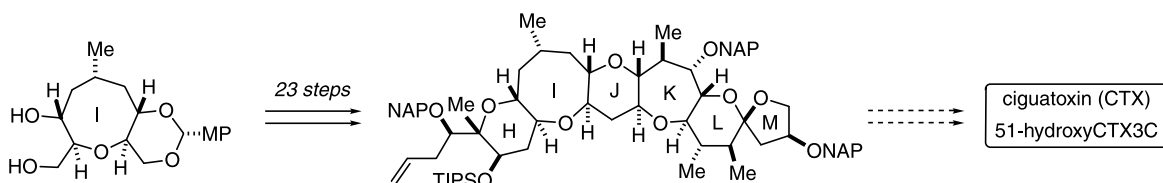


A concise route to the right wing of ciguatoxin

Tetrahedron Letters 44 (2003) 5229

Atsushi Tatami, Masayuki Inoue,* Hisatoshi Uehara and Masahiro Hirama*

Department of Chemistry, Graduate School of Science, Tohoku University, and SORST, Japan Science and Technology Corporation (JST), Sendai 980-8578, Japan

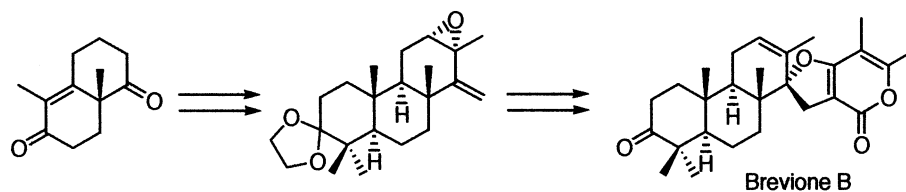


The first synthesis of (±)-brevione B, an allelopathic agent isolated from *Penicillium* sp.

Tetrahedron Letters 44 (2003) 5235

Hirosato Takikawa,* Manabu Hirooka and Mitsuru Sasaki

Department of Biofunctional Chemistry, Kobe University, Rokkodai 1-1, Nada-ku, Kobe 657-8501, Japan



Highly efficient synthesis of buflavine: a unique *Amaryllidaceae* alkaloid

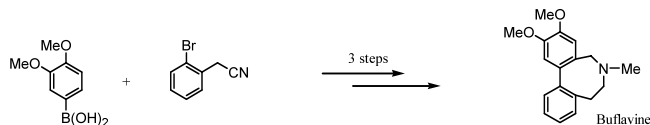
Tetrahedron Letters 44 (2003) 5239

Poolsak Sahakitpichan^a and Somsak Ruchirawat^{a,b,c,*}

^aChulabhorn Research Institute, Vipavadee Rangsit Highway, Bangkok 10210, Thailand

^bDepartment of Chemistry, Faculty of Science, Mahidol University, Rama 6 Road, Bangkok 10400, Thailand

^cChulabhorn Research Centre, Institute of Science and Technology for Research and Development, Mahidol University, Salaya Campus, Thailand

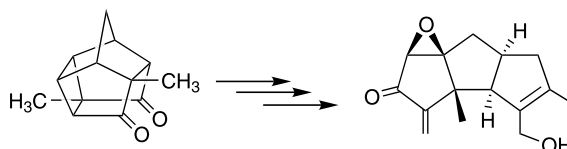


The first total synthesis of the novel triquinane natural products pleurotellol and pleurotellic acid

Tetrahedron Letters 44 (2003) 5243

Goverdhan Mehta* and A. Sai Krishna Murthy

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

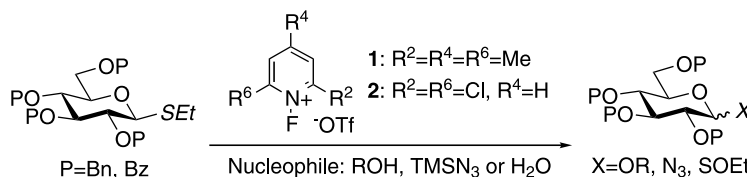


1-Fluoropyridinium triflates: versatile reagents for transformation of thioglycoside into O-glycoside, glycosyl azide and sulfoxide

Tetrahedron Letters 44 (2003) 5247

Hirokazu Tsukamoto* and Yoshinori Kondo

Graduate School of Pharmaceutical Sciences, Tohoku University, Aobayama, Aoba-ku, Sendai 980-8578, Japan



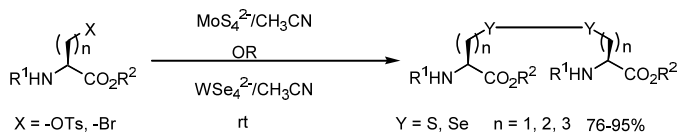
Utility of tetrathiomolybdate and tetraselenotungstate: efficient synthesis of cystine, selenocystine, and their higher homologues

Tetrahedron Letters 44 (2003) 5251

Ramakrishna G. Bhat, Emmanuel Porhiel, Vadivelu Saravanan and Srinivasan Chandrasekaran*

Department of Organic Chemistry, Indian Institute of Science, Bangalore 560012, India

Efficient synthesis of cystine, selenocystine, and their higher homologues like homo and bishomo amino acid derivatives from natural amino acids using tetrathiomolybdate and tetraselenotungstate reagents under mild and neutral conditions is reported. The generality of the reaction has been studied by capping various groups to amino and carboxyl components of canonical amino acids.

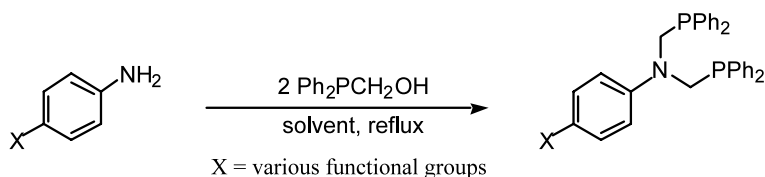


New functionalised ditertiary phosphines via phosphorus based Mannich condensation reactions

Tetrahedron Letters 44 (2003) 5255

Sean E. Durran, Mark R. J. Elsegood, Neil Hawkins, Martin B. Smith* and Salem Talib

Department of Chemistry, Loughborough University, Loughborough, Leics, LE11 3TU, UK

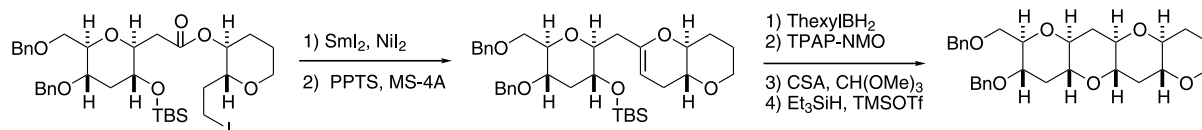


Efficient strategy for convergent synthesis of *trans*-fused polycyclic ethers based on an intramolecular SmI_2 -promoted cyclization of iodo ester

Tetrahedron Letters 44 (2003) 5259

Koji Kawamura, Hiroshi Hinou, Goh Matsuo and Tadashi Nakata*

RIKEN (The Institute of Physical and Chemical Research), Wako, Saitama 351-0198, Japan



***N*-Bromosuccinimide-dimercaptoethane cobromination of alkenes: synthesis of β,β' -dibromodithioethers**

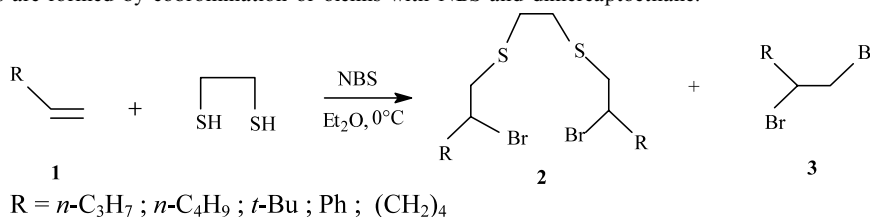
Tetrahedron Letters 44 (2003) 5263

Moufida Romdhani Younes,^a Mohamed Moncef Chaabouni^{b,*} and Ahmed Baklouti^a

^aLaboratoire de Chimie Structurale Organique, Faculté des Sciences de Tunis, 1060 Tunis, Tunisia

^bEcole Supérieure des Industries Alimentaires, 58 Avenue Alain Savary, 1003 Tunis, Tunisia

β,β' -Dibromodithioethers are formed by cobromination of olefins with NBS and dimercaptoethane.



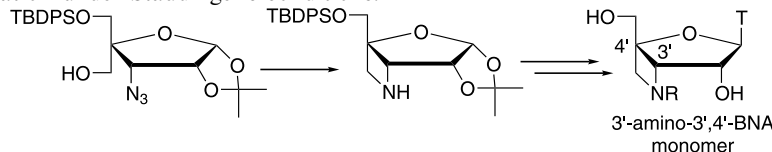
Synthesis of a novel bridged nucleoside bearing a fused-azetidine ring, 3'-amino-3',4'-BNA monomer

Tetrahedron Letters 44 (2003) 5267

Satoshi Obika, Jyun-ichi Andoh, Mayumi Onoda, Osamu Nakagawa, Akiko Hiroto, Tomomi Sugimoto and Takeshi Imanishi*

Graduate School of Pharmaceutical Sciences, Osaka University, 1-6 Yamadaoka, Suita, Osaka 565-0871, Japan

A novel bridged nucleoside, 3'-amino-3'-deoxy-5-methyl-3'-*N*,4'-*C*-methylenauridine, was successfully synthesized via an effective azetidine ring formation under Staudinger's conditions.



A facile synthesis of 3-aryl pyroglutamic acid. Facile synthesis of baclofen and chlorpheg

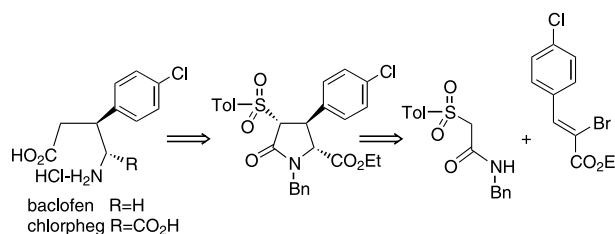
Tetrahedron Letters 44 (2003) 5271

Meng-Yang Chang,^a Pei-Pei Sun,^b Shui-Tein Chen^{a,*} and Nein-Chen Chang^{b,*}

^aInstitute of Biological Chemistry, Academia Sinica, Nankang, Taipei 115, Taiwan

^bDepartment of Chemistry, National Sun Yat-Sen University, Kaohsiung 804, Taiwan

Base-induced coupling/cyclization stepwise [3+2] annulation of α -sulfonylacetamide with various β -functional groups of (*Z*)-2-bromoacrylates yielded three contiguous chiral centers on the polysubstituted pyroglutamates system with *trans-trans* orientation in a one-pot synthesis. This facile strategy was used to synthesize amino acid derivatives baclofen and chlorpheg.

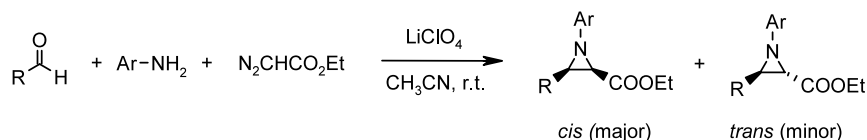


LiClO₄-catalyzed highly diastereoselective synthesis of *cis*-aziridine carboxylates

Tetrahedron Letters 44 (2003) 5275

J. S. Yadav,* B. V. S. Reddy, M. Shesha Rao and P. N. Reddy

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

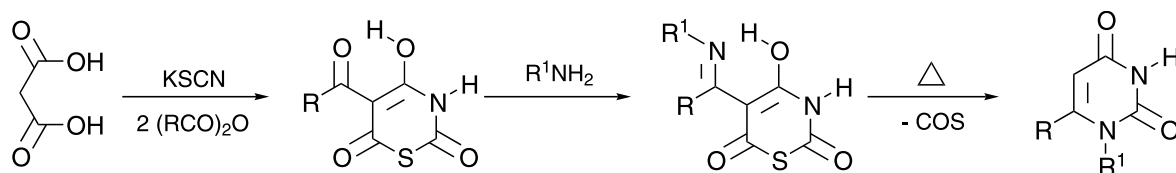


A new synthesis of 1,3-thiazines and their transformation into 1-substituted-6-alkyluracils by extrusion of carbonyl sulfide

Tetrahedron Letters 44 (2003) 5279

Valera N. Yuskovets* and Boris A. Ivin

Department of Organic Chemistry, Saint-Petersburg State Chemical & Pharmaceutical Academy, Saint-Petersburg, Professor Popov St. 14, 197376, Russia



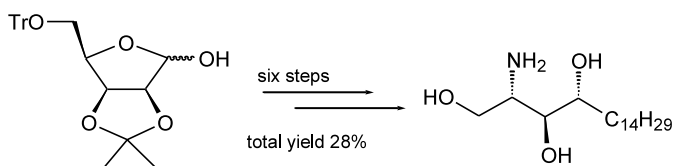
A concise route to phytosphingosine from lyxose

Tetrahedron Letters 44 (2003) 5281

Chun-Cheng Lin,^{a,*} Gang-Ting Fan^{a,b} and Jim-Min Fang^b

^a*Institute of Chemistry, Academia Sinica, Nankang, Taipei 115, Taiwan*

^b*Department of Chemistry, National Taiwan University, Taipei 106, Taiwan*



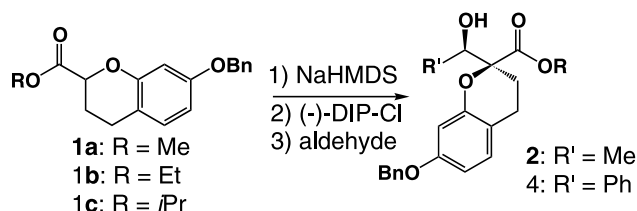
A stereoselective aldol reaction via diisopinocampheyl boron-enolate in preparation of chromane carboxylate with quaternary carbon

Tetrahedron Letters 44 (2003) 5285

Fengrui Lang,^{a,*} Daniel Zewge,^{b,*} Zhiguo J. Song,^b Mirlinda Biba,^b Peter Dormer,^b David Tschaen,^b R. P. Volante^b and Paul J. Reider^b

^a*Department of Process Research, Merck Research Laboratories, WYN-3, 466 Devon Park Drive, Wayne, PA 19087, USA*

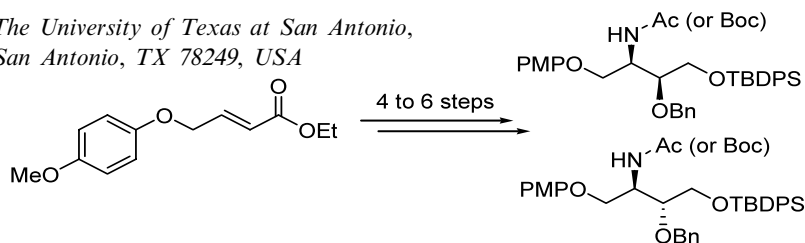
^b*Department of Process Research, Merck Research Laboratories, PO Box 2000, Rahway, NJ 07065, USA*



A concise and general methodology for the complete asymmetric synthesis of the orthogonally protected 2-amino-1,3,4-butanetriols (ABTs)

Om V. Singh and Hyunsoo Han*

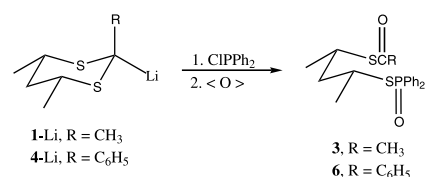
Department of Chemistry, The University of Texas at San Antonio,
6900 N. Loop 1604 West, San Antonio, TX 78249, USA



The formation of open-chain thioesters in the reaction of 2-lithio-2-methyl- and 2-lithio-2-phenyl-1,3-dithiane with chlorodiphenylphosphane followed by oxidation

Barbara Gordillo,* Zaira J. Domínguez, Noé Sánchez,
Ricardo González, Magali Salas and Efraín Barragán

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

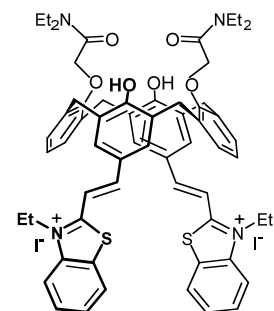


Novel Ca²⁺-selective merocyanine-type chromoionophore derived from calix[4]arene-diamide

Eun Jin Kim, Jong-In Choe and Suk-Kyu Chang*

Department of Chemistry, Chung-Ang University, Seoul 156-756, Republic of Korea

The merocyanine-type ionophore derived from calix[4]arene-diamide showed selective chromogenic properties toward Ca²⁺ ions in aqueous MeOH. The compound showed significant Ca²⁺ ion dependent changes in UV-vis spectral properties in the presence of physiologically important metal ions (Na⁺, K⁺, and Mg²⁺).

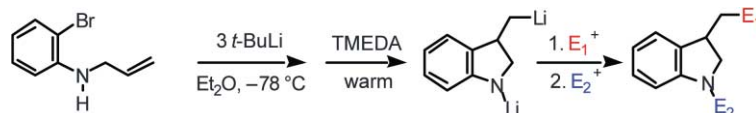


Preparation of differentially 1,3-disubstituted indolines by intramolecular carbolithiation

William F. Bailey,^{a,*} Matthew R. Luderer^a and Michael J. Mealy^b

^aDepartment of Chemistry, University of Connecticut, Storrs, CT 06269-3060, USA

^bH. Lundbeck A/S, Process Development, DK-4500, Lumsaas, Denmark

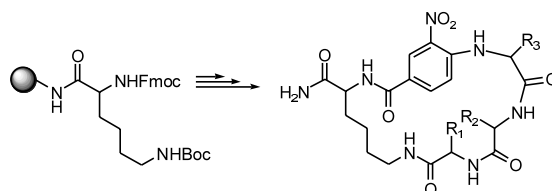


Efficient approach for the diversity-oriented synthesis of macro-heterocycles on solid-support

Tetrahedron Letters 44 (2003) 5307

Marc Giulianotti and Adel Nefzi*

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

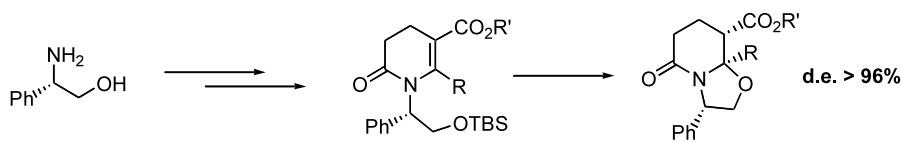


A novel stereocontrolled synthesis of enantiopure bicyclic lactams

Tetrahedron Letters 44 (2003) 5311

Claude Agami, Luc Dechoux* and Séverine Hebbe

Laboratoire de Synthèse Asymétrique (UMR 7611), Université P. et M. Curie, 4 place Jussieu, 75005 Paris, France



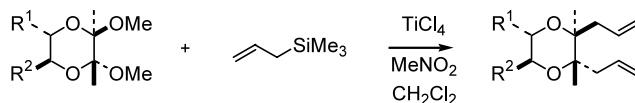
Diastereoselective diallylation of various butane-2,3-diacetals by allylsilane

Tetrahedron Letters 44 (2003) 5315

Natacha Mariet, Malika Ibrahim-Ouali* and Maurice Santelli*

Laboratoire de Synthèse Organique, UMR No. 6009, Avenue Escadrille Normandie-Niemen, F-13397 Marseille Cedex 20, France

Butane-2,3-diacetals have been treated with allylsilane to afford bis-allyldioxanes as single diastereoisomers.



Solid-phase synthesis: a linker for side-chain anchoring of arginine

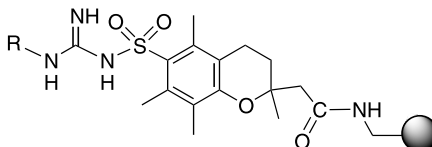
Tetrahedron Letters 44 (2003) 5319

Oscar García,^a Ernesto Nicolás^{a,*} and Fernando Albericio^{a,b,*}

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A new linker based on a chroman system is described for the side-chain anchoring of Arg and other guanidine-containing molecules. The system is compatible with the Fmoc/*t*Bu solid-phase strategy, because the release of the final product is achieved by treatment with TFA in the presence of scavengers.



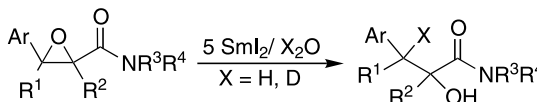
Unusual reductive cleavage of 3-aryl-2,3-epoxyamides by using samarium diiodide. Synthesis of 3-aryl-3-deuterio-2-hydroxyamides with total regioselectivity

Tetrahedron Letters 44 (2003) 5323

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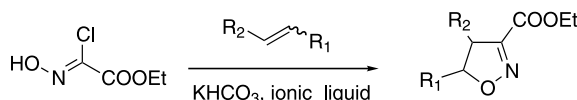


1,3-Cycloaddition of nitrile oxides in ionic liquids. An easier route to 3-carboxy isoxazolines, potential constrained glutamic acid analogues

Tetrahedron Letters 44 (2003) 5327

Dario Conti, Manuela Rodriquez, Alessandro Segà* and Maurizio Taddei

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Novel intramolecular cyclization of *N*-alkynyl heterocycles containing proximate nucleophiles

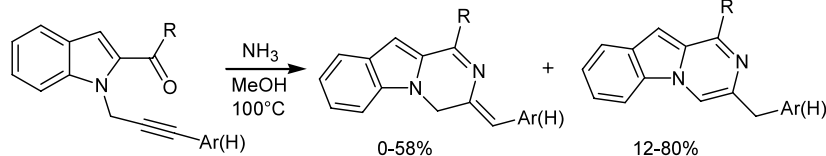
Tetrahedron Letters 44 (2003) 5331

Giorgio Abbiati,^a Antonio Arcadi,^b Egle Beccalli^a and Elisabetta Rossi^{a,*}

^a*Istituto di Chimica Organica 'Alessandro Marchesini', Facoltà di Farmacia, Università degli Studi di Milano, Via Venezian, 21, 20133 Milano, Italy*

^b*Dipartimento di Chimica, Ingegneria Chimica e Materiali, Facoltà di Scienze, Università de L'Aquila, Via Vetoio, Coppito due, 67100 L'Aquila, Italy*

Intramolecular cyclization of 2-acyl-1-propargyl-1*H*-indoles in the presence of ammonia provides an easy entry to pyrazino[1,2-*a*]indole nucleus.



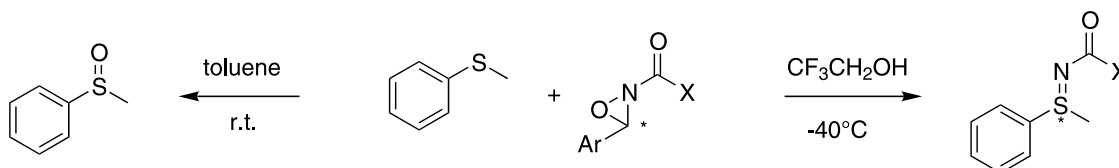
Efficient nitrogen transfer from aldehyde-derived *N*-acyloxaziridines

Tetrahedron Letters 44 (2003) 5335

Alan Armstrong,^{a,*} Ian D. Edmonds^a and Martin E. Swarbrick^b

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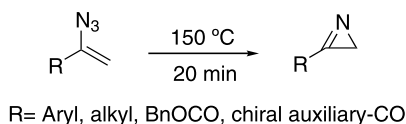


Improved procedure for cyclization of vinyl azides into 3-substituted-2H-azirines

Tetrahedron Letters 44 (2003) 5339

Åsa Sjöholm Timén, Erik Risberg and Peter Somfai*

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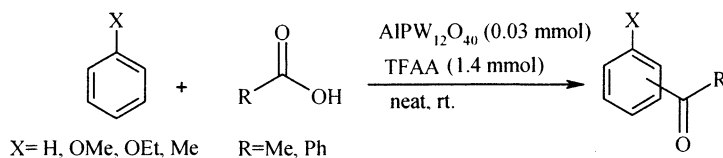


Solvent-free Friedel–Crafts acylation of aromatic compounds with carboxylic acids in the presence of trifluoroacetic anhydride and aluminum dodecatungstophosphate

Tetrahedron Letters 44 (2003) 5343

Habib Firouzabadi,* Nasser Iranpoor* and Farhad Nowrouzi

Department of Chemistry, Shiraz University, Shiraz 71454, Iran

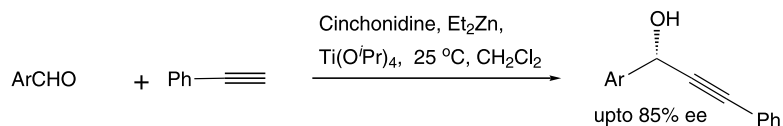


Enantioselective phenylacetylene addition to aldehydes induced by Cinchona alkaloids

Tetrahedron Letters 44 (2003) 5347

Rajesh M. Kamble and Vinod K. Singh*

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

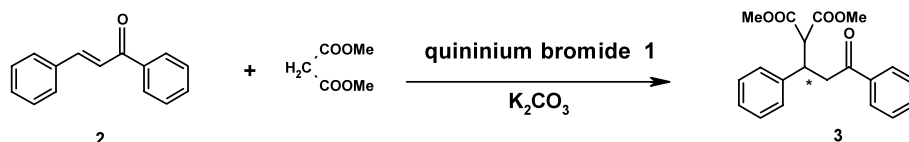


Influence of ionic liquids on the phase transfer-catalysed enantioselective Michael reaction

Tetrahedron Letters 44 (2003) 5351

Ravindra T. Dere, Ravindra R. Pal, Prashant S. Patil and Manikrao M. Salunkhe*

Department of Chemistry, The Institute of Science, 15-Madam Cama Road, Mumbai 400 032, India



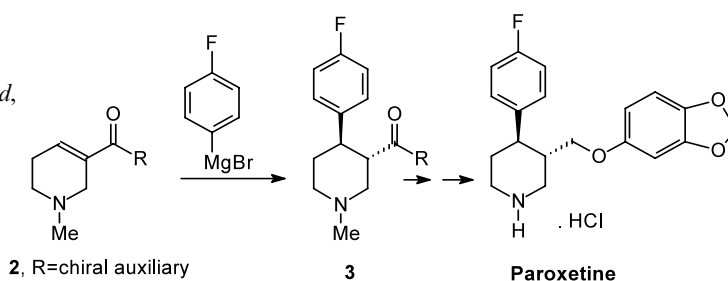
Enantioselective synthesis of 3-substituted-4-aryl piperidines useful for the preparation of paroxetine

Tetrahedron Letters 44 (2003) 5355

K. S. Keshava Murthy,* Allan W. Rey* and Michael Tjepkema

Brantford Chemicals Inc., 34 Spalding Drive, Brantford, Ontario, Canada N3T 6B8

Stereoselective preparation of paroxetine via an asymmetric conjugate addition reaction.



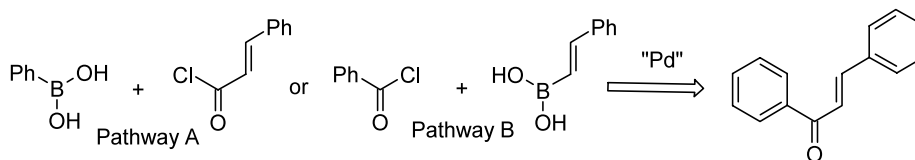
An efficient synthesis of chalcones based on the Suzuki reaction

Tetrahedron Letters 44 (2003) 5359

Said Eddarir,^{a,b} Nicole Cotelte,^a Youssef Bakkour^a and Christian Rolando^{a,*}

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Positional isomerization of quinine and quinidine via rhodium on alumina catalysis: practical one-step synthesis of $\Delta^{3,10}$ -isoquinine and $\Delta^{3,10}$ -isoquinidine

Tetrahedron Letters 44 (2003) 5365

David E. Portlock,^{a,*} Dinabandhu Naskar,^b Laura West,^a William L. Seibel,^a Titan Gu,^a

Howard J. Krauss,^a X. Sean Peng,^a Paul M. Dybas,^a Edward G. Soyke,^a

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