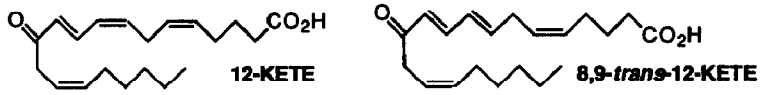
GRAPHICAL ABSTRACTS

Tetrahedron Letters, **1994**, *35*, 4051

SYNTHESIS OF 12-KETE AND ITS 8,9-TRANS-ISOMER. Steven S. Wang and Joshua Rokach*, Claude Pepper Institute, Florida Tech, 150 W. University Blvd., Melbourne, FL 32901, USA. William S. Powell, Meakins-Christie Laboratories, 3626 St-Urbain St., Montreal, Que. H2X 2P2, Canada. Catherine Dekle and Steven J. Feinmark, Dept. of Pharmacology, Columbia University, 630 W. 168th St., New York, NY 10032, USA

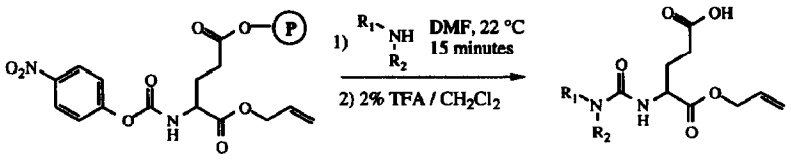
The first total syntheses of 12-KETE and its 8,9-*trans*-isomer are described. Biochemical experiments show that the two isomers are not interconverted *in vivo*.



Tetrahedron Letters, **1994**, *35*, 4055

A GENERAL METHOD FOR THE SOLID PHASE SYNTHESIS OF UREAS. Steven M. Hutchins * and Kevin T. Chapman, Department of Biophysical Chemistry, Merck Research Laboratories, P.O. Box 2000, Rahway, NJ 07065

A general method for the solid-phase synthesis of ureas has been developed. The products obtained are of high chemical purity.

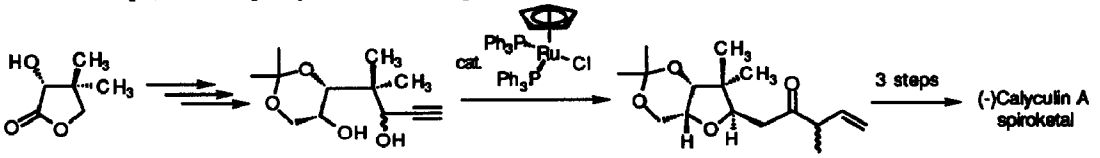


Tetrahedron Letters, **1994**, *35*, 4059

A Synthesis of the Spiroketal Subunit of (-)-Calyculin A

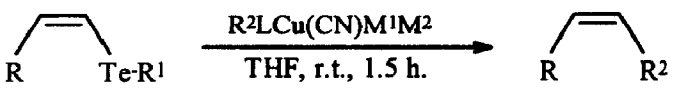
Barry M. Trost and John A. Flygare
Department of Chemistry, Stanford University,Stanford, CA 94305-5080

A twelve step (seven stage) synthesis of the spiroketal core of (-)-calyculin A proceeded in 15% overall yield.



Tetrahedron Letters, **1994**, *35*, 4063

INFLUENCE OF THE GEGENION IN THE TRANSMETALATION REACTION OF VINYLIC TELLURIDES WITH HIGHER ORDER CYANOCUPRATES. André Chieffi and João V. Comasseto
Instituto de Química - Universidade de São Paulo - Cx.P.20780 - CEP 01498 - São Paulo - SP - Brasil.



M^1 = Li, MgBr; M^2 = MgBr ; L = 2-Th, n-C_4H_9

15 - 95 %

Regioselective *N*-Methyl Carbon Lithiation of *N*-Boc-Methylalkylamines. Expedient Synthesis of Unsymmetrical Amines

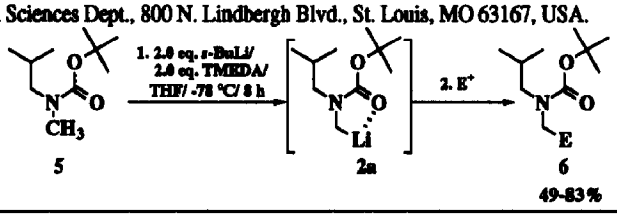
Tetrahedron Letters, **1994**, *35*, 4067

Victor Snieckus,[1*] Mark Rogers-Evans,[1] Peter Beak,[2*] Won Koo Lee,[2] Eul Kyun Yum[2] and John Freskos[3]

[1]Guelph-Waterloo Centre for Graduate Work in Chemistry, University of Waterloo, Waterloo, Ontario, N2L 3G1, CANADA.

[2]Department of Chemistry, University of Illinois at Urbana-Champaign, Urbana, Illinois 61801, USA.

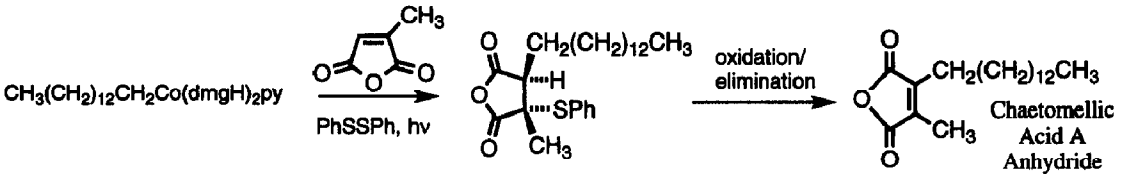
[3]Monsanto Company, Chemical Sciences Dept., 800 N. Lindbergh Blvd., St. Louis, MO 63167, USA.



A COBALOXIME-MEDIATED SYNTHESIS OF THE RAS FARNESYL-PROTEIN TRANSFERASE INHIBITOR CHAETOMELLIC ACID A

Tetrahedron Letters, **1994**, *35*, 4071

Bruce P. Branchaud* and Rachel M. Slade
Department of Chemistry, University of Oregon, Eugene OR 97403-1253

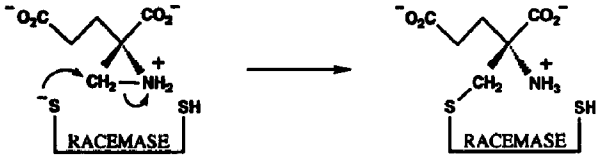


THE SYNTHESIS AND STABILITY OF AZIRIDINO-GLUTAMATE, AN IRREVERSIBLE INHIBITOR OF GLUTAMATE RACEMASE.

Tetrahedron Letters, **1994**, *35*, 4073

Martin E. Tanner,* and Shichang Miao, Dept. of Chemistry, University of British Columbia, Vancouver, B.C. V6T 1Z1 Canada

Aziridino-glutamate (2-(2-carboxyethyl)aziridine-2-carboxylic acid) was synthesized and shown to irreversibly inactivate glutamate racemase by alkylating an active site cysteine residue.

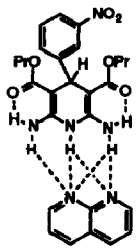


HYDROGEN BONDED COMPLEXES WITH THE AA•DD, AA•DDD, AND AAA•DD MOTIFS: THE ROLE OF THREE CENTERED (BIFURCATED) HYDROGEN BONDING

Tetrahedron Letters, **1994**, *35*, 4077

Steven C. Zimmerman* and Thomas J. Murray
Department of Chemistry, University of Illinois, Urbana, Illinois 61801

The structures and stabilities of hydrogen bonded complexes containing the AA·DD, AA·DDD, and AAA·DD are explained by unsymmetrical three-centered hydrogen bonds with added stabilization from bent two-centered hydrogen bonds.

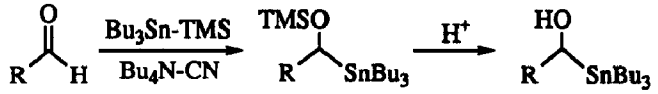


Tetrahedron Letters, **1994**, *35*, 4081

CONVENIENT PREPARATION OF α-TRIMETHYLSILYLOXY- AND α-HYDROXYSTANNANES FROM ALDEHYDES

R.K. Bhatt, J. Ye, J.R. Falck*
Depts. of Molecular Genetics and Pharmacology, UT Southwestern, Dallas, TX 75235

Aldehydes are converted to α-hydroxystannanes via the corresponding silyl ethers in good to excellent yields by Bu_4NCN catalyzed addition of $Bu_3SnSiMe_3$ and hydrolytic isolation.

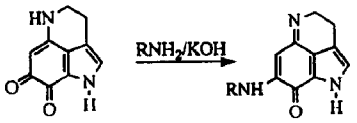


Tetrahedron Letters, **1994**, *35*, 4085

Convenient Syntheses of Pyrroloiminoquinone and its Lexitropsin-linked Derivative

Huiying Wang, Naim H. Al-Said and J. William Lown
Department of Chemistry, University of Alberta, Edmonton, Canada, T6G 2G2

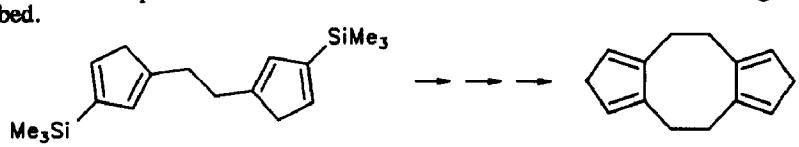
The syntheses of 1-4, pyrroloiminoquinone chromophore and its lexitropsin carrier linked derivative are described.



Tetrahedron Letters, **1994**, *35*, 4087

Synthesis and Reactions of Tricyclo[9.3.0.0^{4,8}]tetradeca-4,7,11,14-tetraene. Carsten Mink, Klaus Hafner*, Institut für Organische Chemie, Technische Hochschule Darmstadt, Petersenstrasse 22, D-64287 Darmstadt (Germany)

The synthesis of the title compound **6** and their transformation into the 2-fold ethano-bridged pentafulvenes **8** and **9** are described.

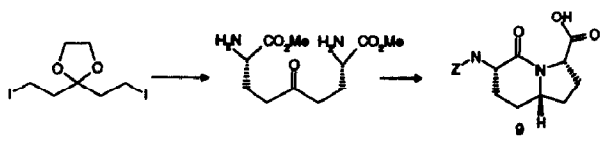


3 **6**

Tetrahedron Letters, **1994**, *35*, 4091

Synthesis of 6,5-Fused Bicyclic Lactams as Potential Dipeptide β-Turn Mimetics

Rudolf Mueller and Laszlo Revesz *, Sandoz Research Institute Berne, CH-3007, Berne, Switzerland

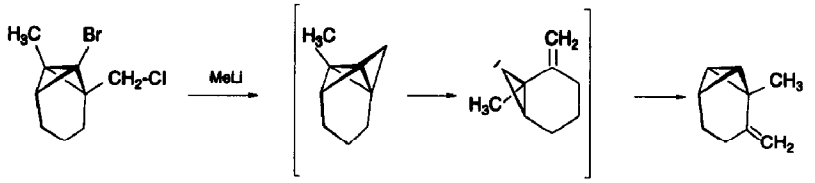


The first short synthesis of the dipeptide mimetic (3*S*, 6*S*, 9*S*)-6-amino-5-oxoindolizidine-3-carboxylic acid 1 and its Z-protected derivative 9 is described, employing the Schoellkopf bislactim-ether methodology. These 6,5-fused bicyclic lactams may be viewed as conformationally restricted alanyl-proline β-turn mimetics.

6-Methyltetracyclo[4.2.0.0^{1,7}.0^{5,7}]octane - a Bridged [3.3.3]Fenestrane

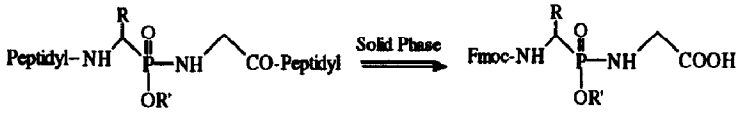
Tetrahedron Letters, **1994**, *35*, 4093

Frank Alber and Günter Szeimies
Institut für Organische Chemie der Universität München, Karlstr. 23, D-80333 München, Germany



Tetrahedron Letters, **1994**, *35*, 4097

A SOLID PHASE SYNTHESIS OF PHOSPHONOPEPTIDES FROM FMOC PHOSPHONODIPEPTIDES. D. Maffre-Lafon, R. Escale, P. Dumy, J.P. Vidal and J.P. Girard. URA. C.N.R.S. 1111. Faculté de Pharmacie, 15 Av. Charles Flahault, Montpellier, FRANCE. The solid phase synthesis of phosphonopeptides was obtained from free carboxy N-Fmoc phosphonodipeptides as precursors.



1a : R = CH_3, R' = CH_2-Ph

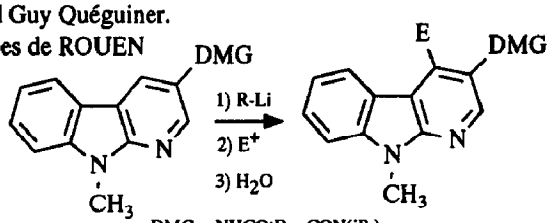
1b : R = CH_2-Ph, R' = CH_3

STUDY OF THE LITHIATION OF 3-SUBSTITUTED α-CARBOLINES. A NEW ROUTE TO 3,4-DISUBSTITUTED DERIVATIVES.

Tetrahedron Letters, **1994**, *35*, 4099

Cyril Papamicaël, Georges Dupas*, Jean Bourguignon and Guy Quéguiner.
URA CNRS 1429, Institut National des Sciences Appliquées de ROUEN
BP 08, 76131 Mont-Saint-Aignan Cédex, France.

The syntheses of four new 3-substituted α-carbolines are described and these products subjected to ortho-lithiation experiments. After quenching with electrophiles, 3,4-disubstituted α-carbolines are obtained.



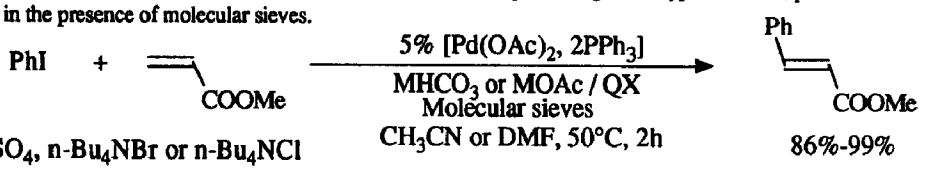
DMG = NHCOtBu, $CON(iPr)_2$

Tetraalkylammonium Salts in Heck-type Reactions Using an Alkali Metal Hydrogen carbonate or an Alkali Metal Acetate as the Base.

Tetrahedron Letters, **1994**, *35*, 4103

Tuyet Jeffery* and Jean-Christophe Galland
Laboratoire de Synthèse Organique associé au CNRS - ENSCP - 11, Rue Pierre et Marie Curie - 75231 Paris - France

When used in conjunction with an alkali metal hydrogen carbonate or an alkali metal acetate, tetraalkylammonium hydrogen sulfate can be just as effective as tetraalkylammonium chloride or bromide for promoting Heck-type reactions, provided that the latter are performed in the presence of molecular sieves.



M= K or Na

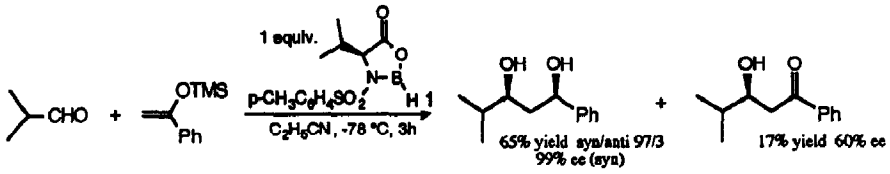
QX= n-Bu_4NHSO_4, n-Bu_4NBr or n-Bu_4NCl

86%-99%

Tetrahedron Letters, **1994**, *35*, 4107

Direct Enantioselective Synthesis of *syn*-1,3-Diols by the Reaction of Aldehydes with Enol Silyl Ethers in the Presence of a Chiral Borane Complex. Successive Asymmetric Aldol Reaction and Asymmetric Reduction with One Promoter

Yuichi Kaneko, Takao Matsuo, and Syun-ichi Kiyooka*
Department of Chemistry, Kochi University, Akebono-cho, Kochi 780, Japan

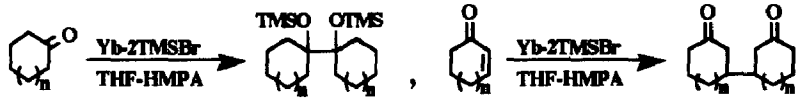


Tetrahedron Letters, **1994**, *35*, 4111

Yb/TMS-Br PROMOTED HOMOCOUPLING REACTIONS OF ALIPHATIC KETONES AND α,β-UNSATURATED KETONES.

Yuki Taniguchi,* Manabu Nakahashi, Tatsuhiro Kuno, Masumi Tsuno, Yoshikazu Makioka, Ken Takaki,* and Yuzo Fujiwara.*
Department of Applied Chemistry, Faculty of Engineering, Hiroshima University, 1-4-1 Kagamiyama, Higashi-Hiroshima 724, Japan

Ytterbium metal reacts with trimethylsilyl bromide (TMS-Br) to give divalent $YbBr_2$ which causes homocoupling reactions of aliphatic ketones and α,β-unsaturated ketones to give bissilylated 1,2-diols and 1,6-ketones, respectively, in good yields.

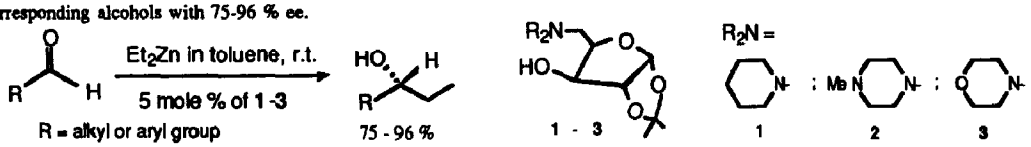


Tetrahedron Letters, **1994**, *35*, 4115

Enantioselective Addition of Diethylzinc to Aldehydes Using γ-Aminoalcohols Derived from α-D-Xylose as New Chiral Catalysts

Byung Tae Cho* and Namdu Kim
Department of Chemistry, Hallym University, Chuncheon 200-702, Republic of Korea

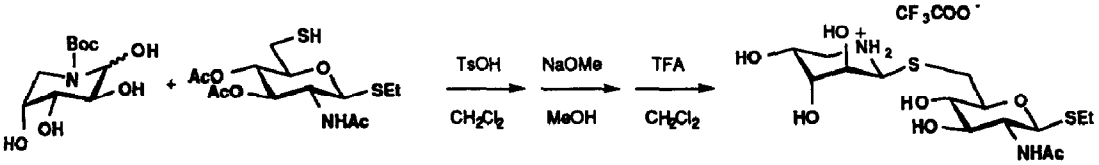
The catalytic enantioselective addition of diethylzinc to aldehydes using new chiral catalysts(1-3) derived from α-D-xylose provided the corresponding alcohols with 75-96 % ee.



Tetrahedron Letters, **1994**, *35*, 4119

Synthesis of Azapyranosyl Thioglycoside: Novel Pseudo-disaccharide Having an Azasugar Residue at the Non-Reducing End.

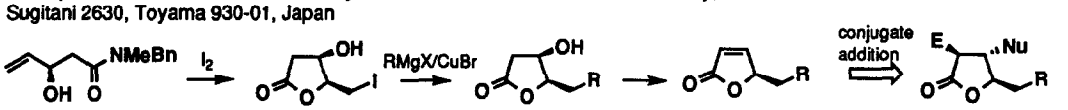
Katsuhiko SUZUKI and Hironobu HASHIMOTO*, Department of Life Science, Faculty of Bioscience and Biotechnology
Tokyo Institute of Technology, Nagatsuta, Midoriku, Yokohama, 227 Japan



Tetrahedron Letters, **1994**, *35*, 4123

New Entry to Chiral Butenolide Synthons. Application to Expeditious Syntheses of (+)-Nephrosteranic Acid, (+)-*trans*-Whisky Lactone, and (+)-*trans*-Cognac Lactone

Hiroki Takahata,* Yasuhiro Uchida, Takefumi Momose*
Faculty of Pharmaceutical Sciences, Toyama Medical & Pharmaceutical University, Sugitani 2630, Toyama 930-01, Japan

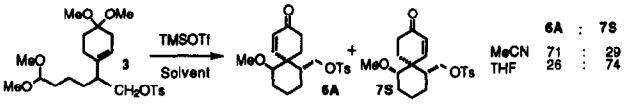


Tetrahedron Letters, **1994**, *35*, 4125

A Novel and Stereoselective Spiroannelation: A Facile Access to Aphidicolane and Stemodane B/C/D-Ring Systems

Tetsuaki Tanaka, Osamu Okuda, Kazuo Murakami, Hitoshi Yoshino, Hidenori Mikamiyama, Atsushi Kanda, and Chuzo Iwata*
Faculty of Pharmaceutical Sciences, Osaka University, 1-6 Yamadaoka, Suita, Osaka 565, JAPAN

Spiro compounds 6A and 7S were obtained in moderate stereoselectivity from a bis-acetal 3 promoted by TMSOTf.

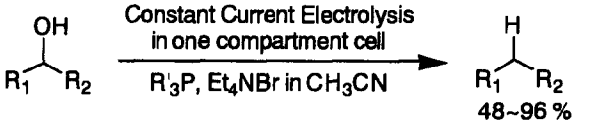


Tetrahedron Letters, **1994**, *35*, 4129

ONE-STEP DEOXYGENATION OF ALCOHOLS INTO ALKANES BY A 'DOUBLE ELECTROLYSIS' IN THE PRESENCE OF A PHOSPHINE

Hatsuo Maeda, Toshihide Maki, Kaoru Eguchi, Takashi Koide and Hidenobu Ohmori
Faculty of Pharmaceutical Sciences, Osaka University, 1-6 Yamadaoka, Suita, Osaka 565, Japan

Primary and secondary alcohols were directly deoxygenated by constant current electrolysis in the presence of a phosphine and Et_4NBr in CH_3CN with one compartment cell.

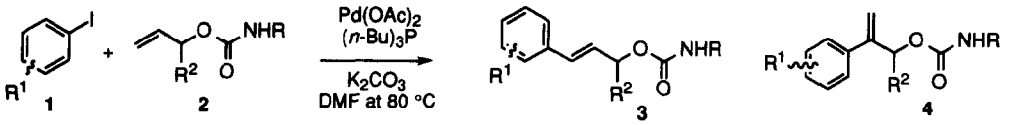


Tetrahedron Letters, **1994**, *35*, 4133

Palladium Catalyzed Arylation of *N*-Alkyl *O*-Allyl Carbamates: Synthesis of Cinnamyl Alcohols via Heck Arylation

Keiji Ono, Keigo Fugami, Shuji Tanaka, and Yoshinao Tamaru*
Department of Applied Chemistry, Faculty of Engineering, Nagasaki University, 1-14 Bunkyo, Nagasaki 852, Japan

N-Alkyl *O*-cinnamyl carbamates (**3**) were prepared in good yields by palladium catalyzed arylation of *N*-alkyl *O*-allyl carbamates (**2**) with aryl iodides.

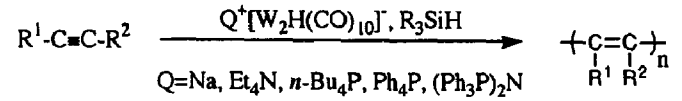


Tetrahedron Letters, **1994**, *35*, 4137

POLYMERIZATION OF SUBSTITUTED ACETYLENES CATALYZED BY THE ANIONIC TUNGSTEN μ-HYDRIDE COMPLEXES.

Hidetoshi Yamamoto,* Kazuna, Mondoh and Takamasa, Fuchikami,* Sagami Chemical Research Center, Nishi-ohnuma 4-4-1, Sagamihara, Kanagawa 229, Japan

Polymerization of substituted acetylenes in the presecne of hydrosilanes was achieved catalyzed by tungsten μ-hydride complexes to give polyacetylenes with high molecular weights in high yields.

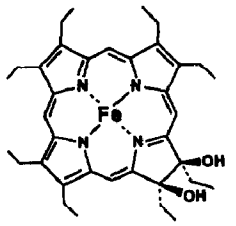


Tetrahedron Letters, **1994**, *35*, 4141

THE FIRST OBSERVATION OF DYNAMIC RUFFLING INVERSION OF AN IRON(III) DIHYDROXYCHLORIN COMPLEX BY PROTON NMR SPECTROSCOPY

Shinji Ozawa, Yoshihito Watanabe, and Isao Morishima*
Division of Molecular Engineering, Graduate School of Engineering, Kyoto University, Kyoto 606-01, Japan

Dynamic ruffling inversion of an iron(III) complex of *cis*-dihydroxyoctaethylchlorin (3), a model for the chlorin prosthetic groups, is observed by variable-temperature proton NMR spectroscopy.



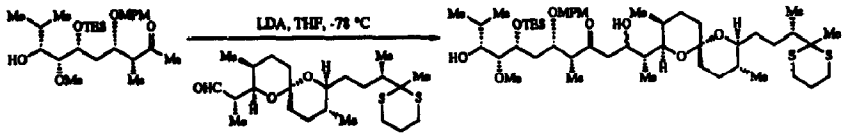
(3)

Tetrahedron Letters, **1994**, *35*, 4145

Synthetic Studies on Tautomycin. Stereoselective Construction of the C_1-C_{26} Region

Sei-ichi Nakamura and Masakatsu Shibasaki*
Faculty of Pharmaceutical Sciences, University of Tokyo, Hongo, Bunkyo-ku, Tokyo 113, Japan

A convergent, stereocontrolled synthesis of the C_1-C_{26} fragment of tautomycin has been achieved through the coupling of the illustrated fragments by an aldol reaction.

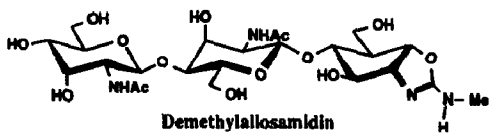


Tetrahedron Letters, **1994**, *35*, 4149

SYNTHESIS OF DEMETHYLALLOSAMIDIN, AN YEAST CHITINASE INHIBITOR; USE OF DISACCHARIDE GLYCOSYL DONOR CARRYING NOVEL NEIGHBORING GROUP.

Shunya Takahashi,* Hiroyuki Terayama† and Hiroyoshi Kuzuhara,†
The Institute of Physical and Chemical Research (RIKEN), Wako, Saitama 351-01, Japan
†Department of Functional Materials Science, Faculty of Engineering, Saitama University, Shimo-Okubo 255, Urawa, Saitama 338, Japan

Demethylallosamidin was synthesized for the first time, through coupling between a novel type of disaccharide glycosyl donor and demethylallosamizoline acceptor derived from allosamizoline.



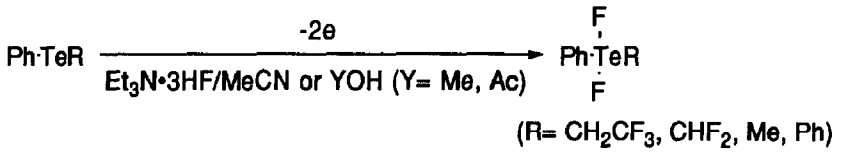
Demethylallosamidin

Tetrahedron Letters, **1994**, *35*, 4153

Electrolytic Partial Fluorination of Organic Compounds. X. Selective Anodic Fluorination of Organic Tellurium Compounds

Toshio Fuchigami,* Toshiyasu Fujita, and Akinori Konno
Department of Electronic Chemistry, Tokyo Institute of Technology, Nagatsuta, Midori-ku, Yokohama 227, Japan

Anodic oxidation of various types of organic tellurium compounds was carried out in the presence of fluoride ions and difluorination occurred at the tellurium atom selectively in high yields regardless of their structures.

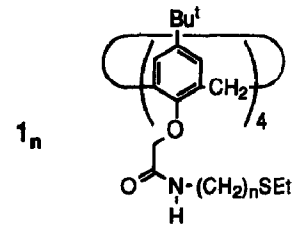


Tetrahedron Letters, **1994**, *35*, 4157

Molecular Design of Hard-Soft Ditopic Metal-Binding Sites on a Calix[4]arene Platform

Kwang Nak Koh, Tomoyuki Imada, Takeshi Nagasaki, and Seiji Shinkai*
Department of Chemical Science & Technology, Faculty of Engineering, Kyushu University, Fukuoka 812, Japan

Ditopic ligands($\mathbf{1}_n$; n=2, 6) which contain "hard"-"soft" metal binding-sites composed of four $EtS(CH_2)_nNHCOCH_2O$- groups were designed for the first time on a calix[4]arene platform.

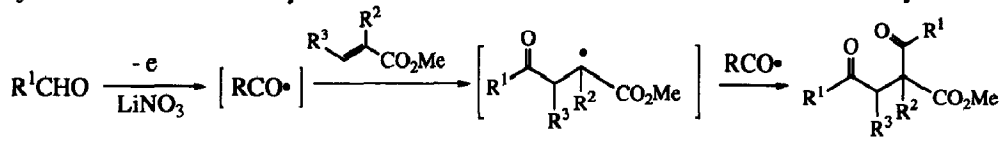


Tetrahedron Letters, **1994**, *35*, 4161

Diacylation of Activated Olefins Promoted by Electrochemically Generated NO_3•

Tatsuya Shono*, Takeshi Soejima, Katsuya Takigawa, Yoshihide Yamaguchi, Hirofumi Maekawa, and Shigenori Kashimura*
Kin-Ki University, 3, 4-1, Kowakae, Higashi-Osaka, 577, JAPAN

An acyl radical is formed by the reaction of an aldehyde with a radical NO_3• generated by the anodic oxidation of NO_3^- and the reaction of this acyl radical with activated olefins lead to the formation of a diacylated compound.

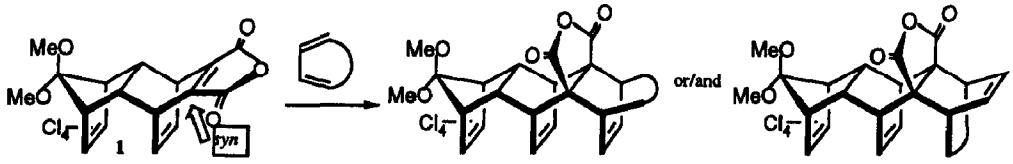


Tetrahedron Letters, **1994**, *35*, 4165

SYNTHESIS AND DIELS-ALDER REACTIONS OF A FACIALLY DISSYMMETRIC TETRACYCLO-FUSED MALEIC ANHYDRIDE WITH CYCLIC DIENES

Teh-Chang Chou*[a], Tzong-Shing Jiang[b], Jenn-Tsang Hwang[a], and Cheng-Tung Lin[b], [a] Institute of Chemistry, National Chung-Cheng University, Ming-Hsiung, Chia-Yi 621, [b] Department of Chemistry, Tung-Hai University, Taichung 407, TAIWAN, R.O.C.

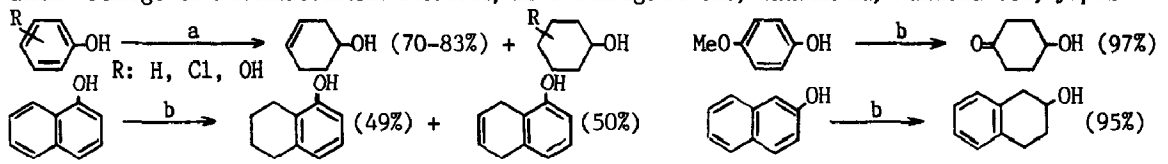
Compound 1 undergoes Diels-Alder reactions exclusively on the face syn to its etheno-bridges.



Tetrahedron Letters, **1994**, *35*, 4169

NOVEL AND FACILE REDUCTION OF PHENOL DERIVATIVES WITH SAMARIUM DIIODIDE–BASE SYSTEM

Yasuko Kamochi* and Tadahiro Kudo
Daiichi College of Pharmaceutical Sciences, 22-1 Tamagawa-cho, Minami-ku, Fukuoka 815, Japan



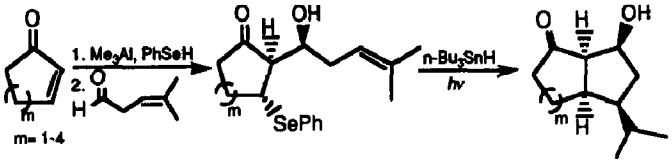
a: SmI_2/base/R'OH/THF/RT/Ar (base: KOH, LiOMe. R': H, Me) b: SmI_2/KOH/H_2O/THF/RT/Ar

Tetrahedron Letters, **1994**, *35*, 4173

A Convenient Method for the Radical Cyclization of the Aldol Products to Fused Bicyclic Carbocycles

Ih-Young Choi Lee,* Jae Hyun Lee, and Hyo Won Lee†
*Korea Research Institute of Chemical Technology, Daejeon 302-343, Korea
†Department of Chemistry, Chungbuk National University, Cheongju 360-763, Korea

Photochemical initiation of radical cyclization of aldol condensation products employing simple flood lamp gave various bicyclic carbocycles.

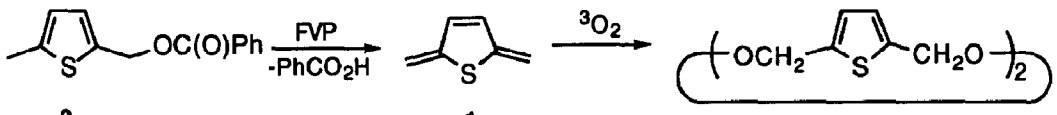


Tetrahedron Letters, **1994**, *35*, 4175

REACTION OF 2,5-DIMETHYLENE-2,5-DIHYDROTHIOPHENE WITH TRIPLET OXYGEN

Chin-Shui Huang, Chun-Chieh Peng and Chin-Hsing Chou*
Department of Chemistry, National Sun Yat-Sen University, Kaohsiung, Taiwan, 80424, China

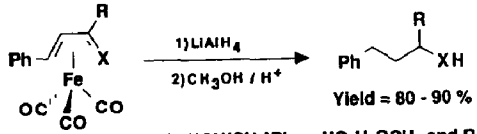
The title compound **1**, synthesized by the flash vacuum pyrolysis of **3**, reacts with triplet oxygen to give a cyclic bisperoxide **6**.



Tetrahedron Letters, **1994**, *35*, 4177

REACTION OF HYDRIDE TRANSFER REDUCING AGENTS WITH (1-HETERODIENE)TRICARBONYLIRON(0) COMPLEXES AND THE SYNTHESIS OF SATURATED AMINES AND ALCOHOLS.

Timothy N. Danks: Department of Chemistry, University of Wales, Bangor, Gwynedd, LL57 2UW.



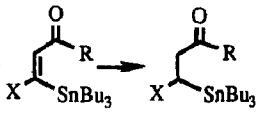
X = O and R= H or CH_3; X= NPh, $NCH(CH_3)Ph$ or $NC_6H_4OCH_3$ and R = H

THE IONIC REDUCTION OF VINYL STANNANES

Tetrahedron Letters, **1994**, *35*, 4179

Y. Zhao[$], P. Quayle[$]*, and E. A. Kuo[¶].
[$]Department of Chemistry. The Victoria University of Manchester Manchester M13 9PL, UK and[¶] Roussel Scientific Institute. Swindon.

The ionic reduction of a variety of vinyl stannanes is described.

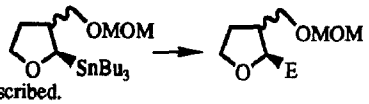


A STEREOSPECIFIC SYNTHESIS OF 2,3-DISUBSTITUTED TETRAHYDROFURAN DERIVATIVES.

Tetrahedron Letters, **1994**, *35*, 4183

Y. Zhao, R. L. Beddoes, and P. Quayle*
Department of Chemistry, The Victoria University of Manchester. Manchester M13 9PL, UK .

A stereospecific synthesis of 2,3-disubstituted tetrahydrofurans from the corresponding stannanes is described.

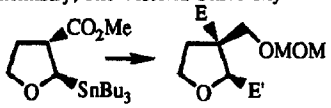


STEREOSELECTIVE ALKYLATION OF METHYL (2-TRIBUTYLSTANNYL)TETRAHYDROFURAN-3-YL-CARBOXYLATE LITHIUM ENOLATE:-ACCESS TO 2,3,3-TRISUBSTITUTED TETRAHYDROFURANS.

Tetrahedron Letters, **1994**, *35*, 4187

Y. Zhao, R. L. Beddoes, and P. Quayle*. Department of Chemistry, The Victoria University of Manchester. Manchester M13 9PL, UK .

A stereospecific synthesis of 2,3,3-trisubstituted tetrahydrofurans is reported.

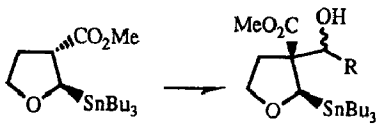


Aldol Reactions of Methyl (2-tributylstannyl)tetrahydrofuran-3 yl-carboxylate Lithium Enolate.

Tetrahedron Letters, **1994**, *35*, 4189

R. L. Beddoes[a], M. L. Lewis, P. Quayle[a]*, Y. Zhao[a] and M. Attwood[b]
[a]Department of Chemistry, The Victoria University of Manchester. Manchester M13 9PL, UK. [b]Roche Products Ltd. Welwyn Garden City. UK.

The aldol reaction of β-stannylpropionates is reported

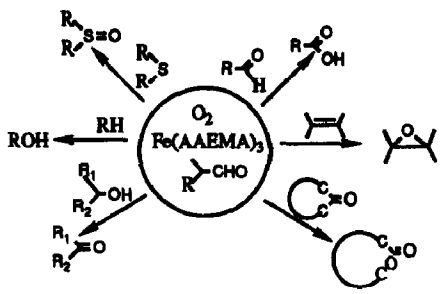


Tetrahedron Letters, **1994**, *35*, 4193

CATALYTIC ACTIVITY OF A POLYMERIZABLE TRIS(β-KETOESTERATE)IRON(III) COMPLEX TOWARDS THE OXIDATION OF ORGANIC SUBSTRATES

Piero Mastrorilli and Cosimo Francesco Nobile*
Centro CNR M.I.S.O., Istituto di Chimica
Politecnico di Bari, Trav.200 Re David,4 Bari I-70126 Italy

AAEMA= deprotonated form of 2-(acetacetoxy)ethyl methacrylate

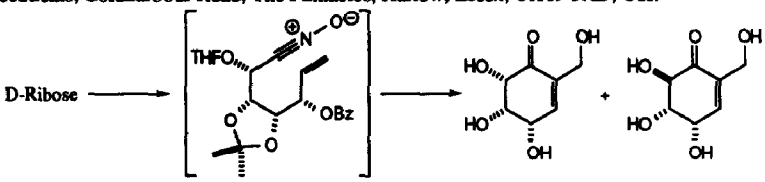


Tetrahedron Letters, **1994**, *35*, 4197

SYNTHESIS OF (+)-GABOSINES C AND E FROM D-RIBOSE.

Barry Lygo*[a], Michael Swiatyj[a], Hassane Trabsa[a], and Martyn Voyle[b]

a - Department of Chemistry and Applied Chemistry, University of Salford, Salford, M5 4WT, UK. b - SmithKline Beecham Pharmaceuticals, Coldharbour Road, The Pinnacles, Harlow, Essex, CH19 5AD, UK.

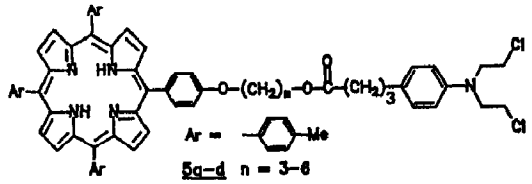


Tetrahedron Letters, **1994**, *35*, 4201

PORPHYRIN-CHLORAMBUCIL CONJUGATES. SYNTHESIS AND LIGHT-INDUCED NUCLEASE ACTIVITY

G. Mehta,* T. Sambaiah, B.G. Maiya,* M. Sirish and A. Dattagupta
School of Chemistry, University of Hyderabad, Hyderabad 500 134, India.

Compounds 5a-d exhibit photo-initiated nuclease activity

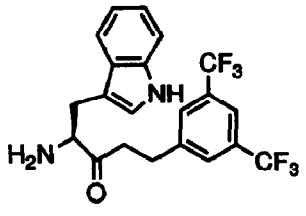


Tetrahedron Letters, **1994**, *35*, 4205

SYNTHESIS OF HOMOCHIRAL KETONES DERIVED FROM L-TRYPTOPHAN: POTENT SUBSTANCE P RECEPTOR ANTAGONISTS.

Kevin J. Merchant, Richard T. Lewis and Angus M. MacLeod,
Merck, Sharpe and Dohme,Terlings Park, Eastwick Road,
Harlow, Essex, CM20 2QR, U.K.

The synthesis of (S)-2-amino-5-(3,5-bis(trifluoromethyl)phenyl)--1-(3-indolyl)-3-pentanone is described.



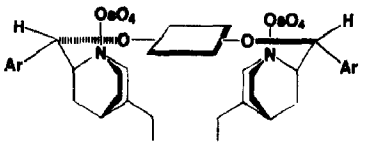
On the Mechanism of Asymmetric Dihydroxylation of Alkenes

Tetrahedron Letters, **1994**, *35*, 4209

Braj B. Lohray* Vidya Bhushan and E. Nandanan

Division of Organic Chemistry-Syn, National Chemical Laboratory, Pune 411 008, INDIA

^{1}H NMR studies on $DHQD_2$-TP with varying concentration of OsO_4 and *trans*-3-hexene were carried out to show that OsO_4 is bound to both the quinuclidine moieties of the ligand but only one of the complexed OsO_4 reacts with olefin in AD reaction.



HYPERVALENT IODINE OXIDATION OF 2-METHYL-4-QUINOLONES USING [HYDROXY(TOSYLOXY)-IODO]BENZENE : SYNTHESIS OF 2-METHYL-3-IODO-4-PHENOXYQUINOLINES VIA NOVEL MONOCARBONYL IODONIUM YLIDES.

Tetrahedron Letters, **1994**, *35*, 4211

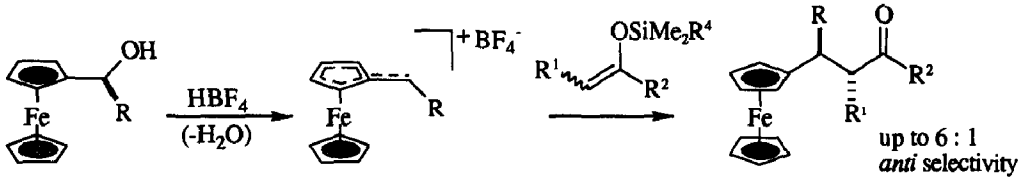
Om Prakash*, Devinder Kumar, Rajesh K. Saini and Shiv P. Singh, Department of Chemistry, Kurukshetra University, Kurukshetra 132 119, INDIA.

Oxidation of 2-methyl-4-quinolones with [hydroxy(tosyloxy)iodo]benzene giving novel products is reported.

STEREOSELECTIVE ADDITION OF SILYL ENOL ETHERS TO α-FERROCENYLCARBENIUM IONS

Tetrahedron Letters, **1994**, *35*, 4215

Christopher J. Richards,*
David Hibbs and Michael B. Hursthouse, School of Chemistry and Applied Chemistry, University of Wales College of Cardiff, CF1 3TB, UK.



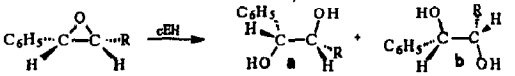
DIFFERENT ENANTIOSELECTIVITY AND REGIOSELECTIVITY OF THE CYTOSOLIC AND MICROSOMAL EPOXIDE HYDROLASE CATALYZED HYDROLYSIS OF SIMPLE PHENYL SUBSTITUTED EPOXIDES.

Tetrahedron Letters, **1994**, *35*, 4219

Giuseppe Bellucci*, Cinzia Chiappe, Antonio Cordoni, Franco Marioni .

Dipartimento di Chimica Bioorganica, via Bonanno 33, 56126 Pisa, Italy.

Styrene oxide and *trans*-1-phenylpropene oxide are hydrolysed by cEH by opening at the benzylic carbon and with no substrate enantioselection, at variance with the mEH reactions.



R = H a : b = 45 : 55

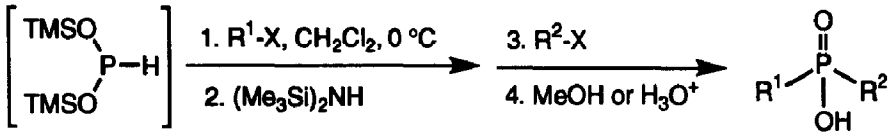
R = CH_3 a : b = > 98 : <2

Tetrahedron Letters, **1994**, *35*, 4223

SYNTHESIS OF ALKYL PHOSPHINIC ACIDS FROM SILYL PHOSPHONITES AND ALKYL HALIDES

E. Andrew Boyd and Andrew C. Regan,* Chemical Laboratory, The University, Canterbury, Kent CT2 7NH, U.K.
Keith James, Discovery Chemistry, Pfizer Central Research, Sandwich, Kent CT13 9NJ, U.K.

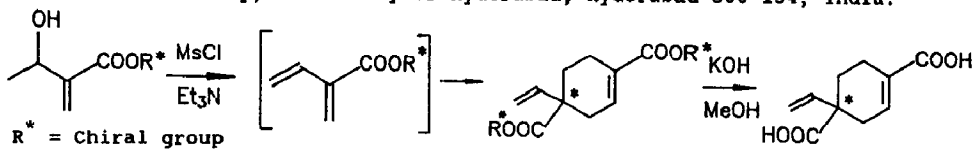
Silyl phosphonites have been alkylated using simple unactivated alkyl halides under mild conditions.



Tetrahedron Letters, **1994**, *35*, 4227

FIRST ENANTIOSELECTIVE SYNTHESIS OF MIKANECIC ACID VIA DIELS-ALDER CYCLOADDITION MEDIATED CONSTRUCTION OF CHIRAL VINYLIC QUATERNARY CENTER

Deevi Basavaiah,* Subramanian Pandiaraju and Pakala K.S. Sarma
School of Chemistry, University of Hyderabad, Hyderabad 500 134, India.

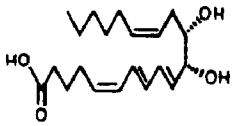


Tetrahedron Letters, **1994**, *35*, 4231

STEREOSELECTIVE SYNTHESIS OF (11R,12S)-(5Z,7E, 9E,14Z)-11,12-DIHYDROXY 5,7,9, 14-EICOSATETRAENOIC ACID FROM 'DIACETONE GLUCOSE'

G V M Sharma* and S Mahender Rao
Bio-Organic Laboratory, Indian Institute of Chemical Technology, Hyderabad 500 007, India

Total Synthesis of (11R,12S)-diHETE from diacetone glucose is described.

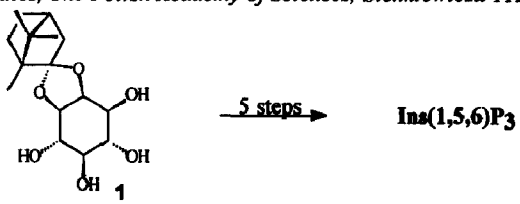


Tetrahedron Letters, **1994**, *35*, 4233

SYNTHESIS OF ENANTIOMERICALLY PURE D-*MYO*-INOSITOL 1,5,6-TRISPHOSPHATE

Grzegorz M. Salamończyk and K. Michał Pietrusiewicz
Centre of Molecular and Macromolecular Studies, The Polish Academy of Sciences, Sienkiewicza 112, Łódź, Poland

The first synthesis of Ins(1,5,6)P_3 based on two regioselective OH protections in **1** is described.

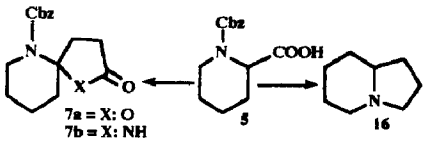


Tetrahedron Letters, **1994**, *35*, 4235

DPPA-PROMOTED DECARBONYLATION OF A N-CBZ-(D,L)-PIPECOLINIC ACID DERIVATIVE: AN EASY ENTRY TO [4.5]SPIROLACTAMS AND [4.5]SPIROLACTONES. TOTAL SYNTHESIS OF (±)-δ-CONICEINE.

M. J. Martín-López and F. Bermejo-González*. Departamento de Química Orgánica, Universidad de Salamanca. Pza de la Merced s.n. 37008 Salamanca , Spain.

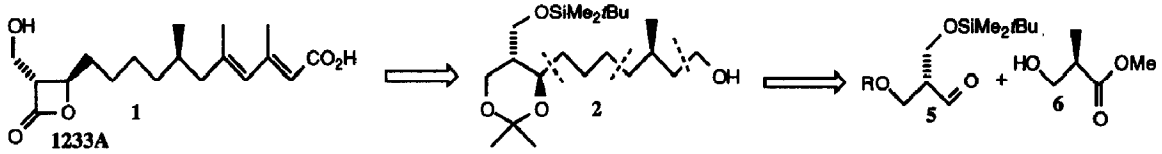
The synthesis of 6-benzyloxy-1-oxa-6-azaspiro[4.5]decane-2-one (**7a**), 6-benzyloxycarbonyl-1,6-diazaspiro[4.5]decane-2-one (**7b**) and (±)-δ-coniceine (**16**), from (D,L)-pipecolinic acid is described. The key step of our strategy is the decarbonylation of an α-substituted aminoacid promoted by diphenylphosphoraźidate (DPPA).



Tetrahedron Letters, **1994**, *35*, 4239

CONVERGENT SYNTHESIS OF A KEY INTERMEDIATE FOR HYPO-CHOLESTEROLEMIC AGENT 1233A, STARTING FROM METHYL 3-HYDROXY-2-METHYL PROPANOATE AND ASYMMETRIZED *BIS*(HYDROXYMETHYL)ACETALDEHYDE (BHYMA*).

Giuseppe Guanti,* Luca Banfi, Giovanna Schmid, Istituto di Chimica Organica , corso Europa 26, 16132 Genova (Italy).

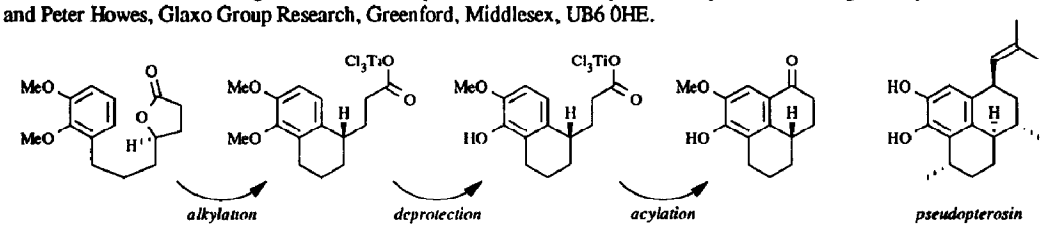


Compound **2**, a known intermediate for the synthesis of **1**, was prepared by assembling the two chiral building blocks **5** and **6**.

Tetrahedron Letters, **1994**, *35*, 4243

A SYNTHETIC APPROACH TO THE PSEUDOPTEROSINS USING CASCADE TECHNOLOGY

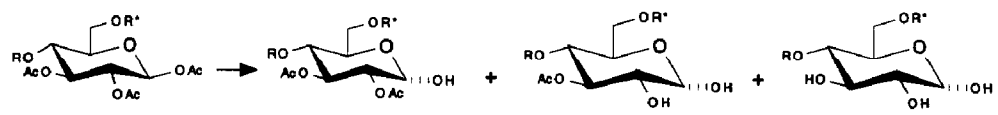
David C. Harrowven*, Shelagh T. Dennison, Department of Chemistry, University of Wales, Bangor, Gwynedd, LL57 2UW. and Peter Howes, Glaxo Group Research, Greenford, Middlesex, UB6 0HE.



Tetrahedron Letters, **1994**, *35*, 4247

CHEMICAL REGIOSELECTIVE HYDROLYSIS OF PERACETYLATED DISACCHARIDES, SPECIFICALLY AT THE ANOMERIC CENTRE: INTERMEDIATES FOR THE SYNTHESIS OF OLIGOSACCHARIDES.

R. Khan*, P.A. Konowicz, L. Gardossi, M. Matulová, S. Paoletti.
POLY-biòs LBT, Area di Ricerca, Padriciano 99, Trieste, Italy.



Disaccharide hepta(HO-1)-, hexa(HO-1,2/1,3)- and penta(HO-1,2,3)- acetates prepared using hydrazine hydrate.