

Tetrahedron Lett. 1993, 34, 1391

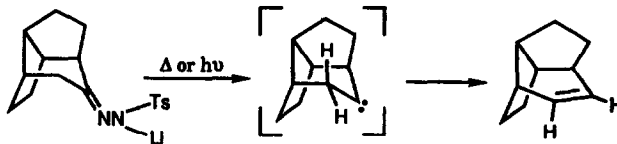
HYDROGEN REARRANGEMENTS IN CARBENES.

INHERENT H_{ax}/H_{eq} MIGRATION RATIOS IN THERMAL AND PHOTIC BAMFORD-STEVENS REACTIONS

Alex Nickon, Alfred G. Stern, and Martin C. Ilao

Department of Chemistry, The Johns Hopkins University, Baltimore MD, 21218-2685

The inherent migration ratio H_{ax}/H_{eq} is ~1.7 in thermolysis and ~1.2 in photolysis. These experimental ratios are free of chair-boat ambiguity.

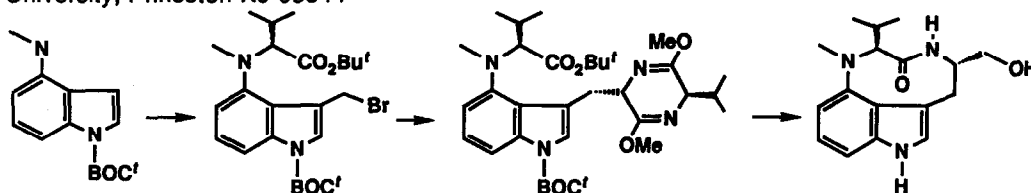


Tetrahedron Lett. 1993, 34, 1395

A SYNTHESIS OF (-)-INDOLACTAM V

M. F. Semmelhack and Hakjune Rhee

Department of Chemistry, Princeton University, Princeton NJ 08544

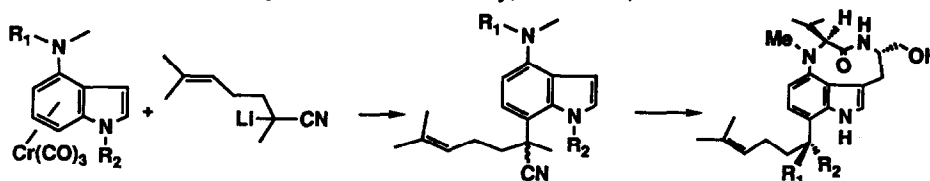


Tetrahedron Lett. 1993, 34, 1399

FORMAL SYNTHESIS OF TELEOCIDIN A VIA INDOLE-Cr(CO)₃ COMPLEXES

M. F. Semmelhack and Hakjune Rhee

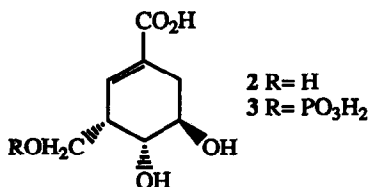
Department of Chemistry, Princeton University, Princeton, NJ 08544



Tetrahedron Lett. 1993, 34, 1403

SYNTHESIS OF (-)-3-HOMOSHIKIMIC ACID AND (-)-3-HOMOSHIKIMATE-3-PHOSPHATE

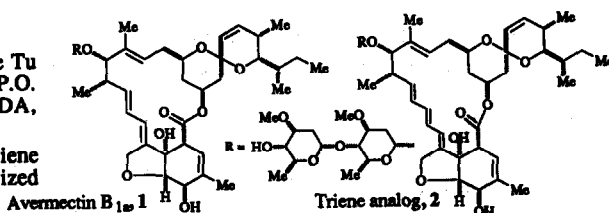
Harold B. Wood, Jr. and Bruce Ganem*
Department of Chemistry, Baker Laboratory
Cornell University
Ithaca, New York 14853-1301 USA



BIS-HOMO AVERMECTIN B_{1a} - A SEMI-SYNTHETIC ANALOG WITH A TRIENIC18-MEMBERED MACROCYCLIC RING

Stephen Hanessian*, Philippe Chemla and Yongxue Tu
Department of Chemistry, Université de Montréal, P.O. Box 6128, Station A, Montréal, P.Q. CANADA, H3C 3J7

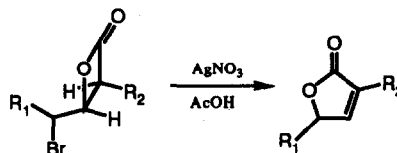
An analog of avermectin B_{1a} in which the diene portion was homologated to a triene was synthesized from the natural product.



A NEW SYNTHESIS OF SUBSTITUTED BUTENOLIDES VIA CATION-INITIATED RING EXPANSION/ELIMINATION OF β -LACTONES

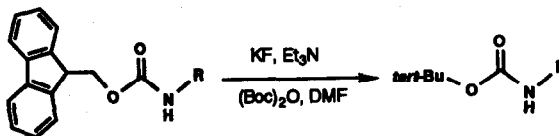
T. Howard Black* and Jianhua Huang, Department of Chemistry, Eastern Illinois University, Charleston, Illinois 61920

When treated with silver ion in refluxing acetic acid, γ -bromo- β -lactones, available via bromolactonization, undergo a ring elimination reaction to afford substituted butenolides.



One-Pot Conversion of Fluorenylmethyl Carbamates into *tert*-Butyl Carbamates

Wen-Ren Li, Jianjun Jiang, and Madeleine M. Joullie*
Department of Chemistry, University of Pennsylvania
Philadelphia, PA 19104-6323

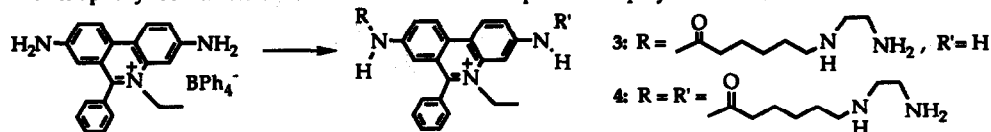


N-Fluorenylmethoxycarbonyl groups may be efficiently converted to the corresponding *N-tert*-butoxycarbonyl compound by potassium fluoride/*Et*₃N in the presence of *Boc*₂O.

SYNTHESIS OF POLYAMINO AMIDO DERIVATIVES OF ETHIDIUM

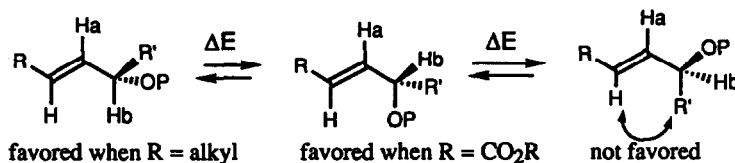
Michael V. Keck and Stephen J. Lippard*
Department of Chemistry, Massachusetts Institute of Technology, Cambridge, MA 02139

The tetraphenyl borate salt of ethidium was modified to produce polyamino amido derivatives.



CONFORMATIONAL PREFERENCES OF C1-OXYGENATED ACYCLIC CHIRAL ALKENES: THE EFFECT OF VINYL AND ALLYL SUBSTITUENTS

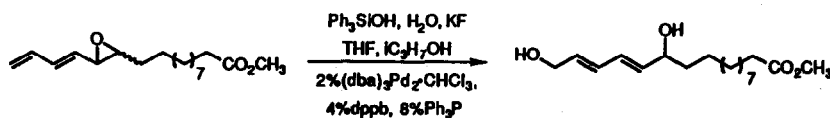
Benjamin W. Gung*, Mark A. Wolf, Keith Ohm, and Andrew J. Peat
Department of Chemistry, Miami University, Oxford, Ohio 45056



Triphenylsilanol as a Water Surrogate for Regioselective Pd Catalyzed Allylations

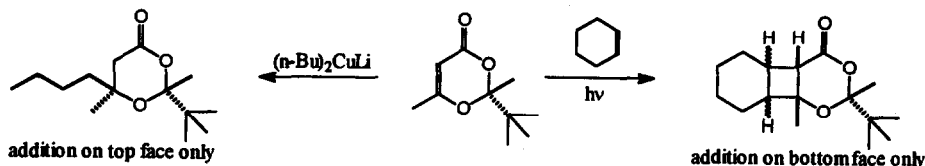
Barry M. Trost, Nobuhiko Ito and Paul D. Greenspan
Department of Chemistry, Stanford University, Stanford, California 94305-5080

Triphenylsilanol participates in Pd catalyzed allylic alkylations of vinyl epoxides to give the product of distal attack with excellent regioselectivity in contrast to other oxygen nucleophiles. Ease of desilylation under the reaction conditions effects an equivalent of nucleophilic attack of water, a species which does not serve as an effective nucleophile in these reactions



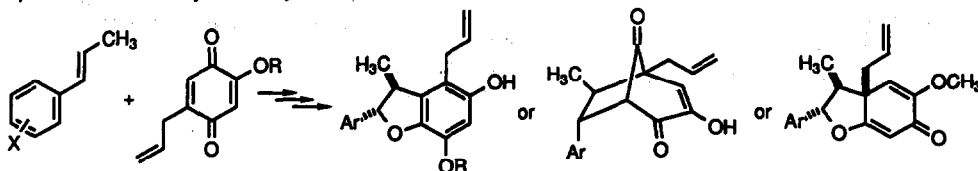
ASYMMETRIC INDUCTION IN CUPRATE AND PHOTO-ADDITIONS TO 2-(4-BUTYL-2,6-DIMETHYL-1,3-DIOXIN-4-ONE. ABSOLUTE BUT OPPOSITE FACE SELECTIVITIES.

G.L. Lange and M.G. Organ, Guelph-Waterloo Centre for Graduate Work in Chemistry, Department of Chemistry and Biochemistry, University of Guelph, Guelph, Ontario, N1G 2W1, Canada.



STEREOSELECTIVE SYNTHESIS OF THREE DIFFERENT CLASSES OF NEOLIGNANS FROM THE SAME STARTING MATERIALS

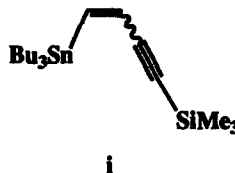
Thomas A. Engler,* Dong (Donna) Wei and Michael A. Letavic
Department of Chemistry, University of Kansas, Lawrence, Kansas 66045



POLYENE CONSTRUCTIONS VIA PALLADIUM COUPLINGS OF
ACTIVATED TRIPLATES WITH STANNYLATED ENYNES

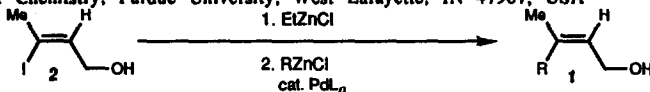
Bruce H. Lipshutz* and Mouad Alami
Department of Chemistry,
University of California,
Santa Barbara, CA 93106

Coupling reactions of E- and Z- forms
of enyne **1** using a Pd(0) catalyst.



HIGHLY STEREOSELECTIVE AND GENERAL SYNTHESIS OF (Z)-3-METHYL-2-ALKEN-1-OLS
VIA PALLADIUM-CATALYZED CROSS COUPLING OF (Z)-3-iodo-2-buten-1-ol
WITH ORGANOZINCS AND OTHER ORGANOMETALS

Ei-ichi Negishi*, Mehmet Ay, Yuri V. Gulevich, and Yumiki Noda
Department of Chemistry, Purdue University, West Lafayette, IN 47907, USA



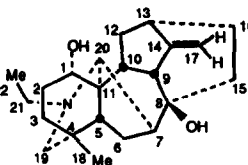
R = *n*-alkyl, *i*-alkyl, benzyl, homoallyl, homopropargyl, homobenzyl, alkenyl, aryl, and alkynyl
The Pd-catalyzed reaction of O-protected derivatives of **2** with various organozincs in DMF
provides a highly stereoselective, general, and high-yielding procedure for preparing **1**.

THE STRUCTURE OF AJABICINE, A NOVEL DITERPENOID ALKALOID FROM *DEL-*
PHINIUM AJACIS

Balawant S. Joshi,^a Mohinder S. Puar,^b Haridutt K. Desai,^a Samir A. Ross,^a Jing Lu,^a and S. William
Pelleter^{a*}

^aInstitute for Natural Products Research and Department of Chemistry, The University of Georgia,
Athens, GA 30602-2556, U.S.A.; ^bSchering-Plough Research Institute, 60 Orange Street, Bloomfield,
NJ 07003, U.S.A.

The structure of ajabicine, a novel diterpenoid alkaloid from *Delphinium ajacis*, has been established as
1. This is the first diterpenoid alkaloid bearing a C-14 exocyclic methylene group.



1 Ajabicine

DETECTION OF OLIGONUCLEOTIDE DUPLEX FORMS
BY ION-SPRAY MASS SPECTROMETRY

Bruce Ganem,* Yu-Tsyr Li[†] and Jack D. Henion*[¶]

*Department of Chemistry, Baker Laboratory

[†]Drug Testing and Toxicology, NYS College of Veterinary Medicine

Cornell University

Ithaca, New York 14853 USA

*Base-paired forms of double-stranded oligonucleotides have been
detected by ion-spray mass spectrometry for the first time.*

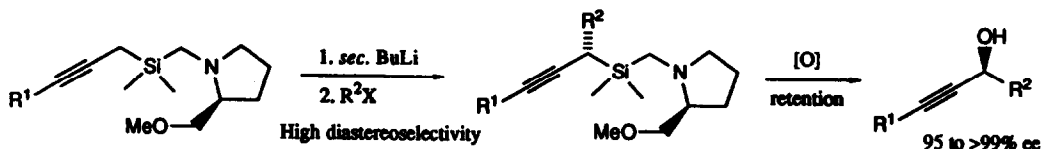
5'-dCCCCGGGG-3'
3'-dGGGGCCCC-5'

Tetrahedron Lett. 1993, 34, 1449

HIGHLY ENANTIOSELECTIVE SYNTHESIS OF PROPARGYL ALCOHOLS

R.C.Hartley, S.Lamothe, and T.H.Chan*

Department of Chemistry, McGill University, Montréal, P.Q., Canada, H3A 2K6.



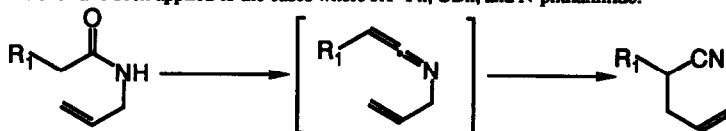
Tetrahedron Lett. 1993, 34, 1453

AN EXTREMELY MILD 3-AZA-CLAISEN REACTION. 2. NEW CONDITIONS AND THE REARRANGEMENT OF α -HETEROATOM SUBSTITUTED AMIDES.

M. A. Walters,* A. B. Hoem, H. R. Arcand, A. D. Hegeman, and C. S. McDonough

Dartmouth College, 6128 Burke Laboratory, Department of Chemistry, Hanover, NH 03755-3564

Several new and potentially useful reaction conditions for the 3-aza-Claisen rearrangement of N-allyl amides have been developed. These conditions have been applied to the cases where R1=Ph, OBn, and N-phthalimide.



Tetrahedron Lett. 1993, 34, 1457

Synthesis Of C₂-Symmetric HIV-Protease Inhibitors With Sulfur-Containing Central Units.

Andrew Spaltenstein^a, Johann J. Leban^a, and Eric S. Furfine^b, Divisions of *a)* Organic Chemistry and *b)* Experimental Therapy Burroughs Wellcome Co, 3030 Cornwallis Rd., Research Triangle Park, NC 27709 USA

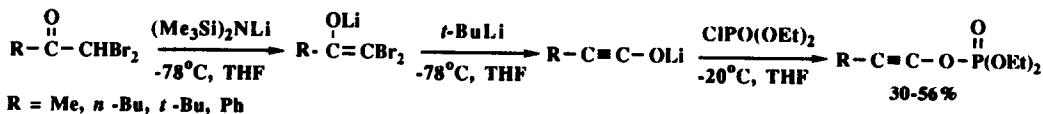


Tetrahedron Lett. 1993, 34, 1461

REACTION OF LITHIUM ALKYNOLATES WITH ACID CHLORIDES:

A CONVENTIONAL APPROACH TO THE PREPARATION OF YNOL ESTERS

Viktor V. Zhdankin*, Peter J. Stang*, Chemistry Department, University of Utah, Salt Lake City, Utah 84112 USA



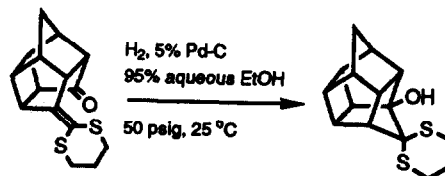
Synthesis of Substituted Hexacyclo[5.4.1.0^{2,6}.0^{3,10}.0^{5,9}.0^{8,11}]dodecanes. A Novel Method for Bridging Across the 8,11-Positions of Pentacyclo[5.4.0.0^{2,6}.0^{3,10}.0^{5,9}]undecane-8,11-dione and Related Diketones

Alan P. Marchand* and Dayananda Rajapaksa

Department of Chemistry, University of North Texas,
Denton, Texas 76203-0068

A novel method for reductive cyclization of 1,4-dione mono(ketene dithioacetals) which possess spatially proximate reaction centers is described.

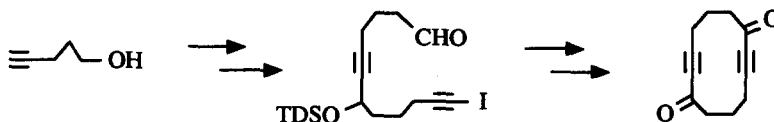
Tetrahedron Lett. 1993, 34, 1463



SYNTHESIS OF CYCLODODECA-2,8-DIYNE-1,7-DIONE

Bernhard Bodenmann and Reinhart Keese*

Institut für organische Chemie, Universität Bern, Freiestrasse 3, CH-3012 Bern, Switzerland

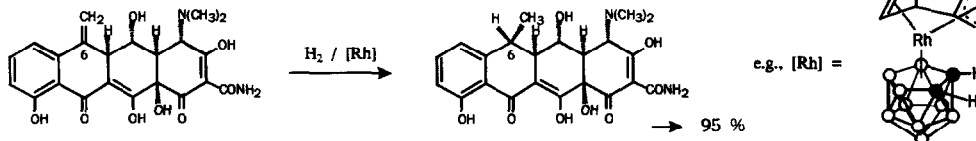


Tetrahedron Lett. 1993, 34, 1467

STEREOSELECTIVE HYDROGENATION OF METHACYCLINE TO DOXYCYCLINE CATALYSED BY RHODIUM-CARBORANE COMPLEXES

B. Pirotte, A. Felekidis, M. Fontaine, A. Demonceau,* A.F. Noels and J. Delarge
University of Liège, B-4000 Liège, Belgium

I.T. Chizhevsky, T.V. Zinevich, I.V. Pisareva and V.I. Bregadze
Russian Academy of Sciences, 117813 Moscow, Russia

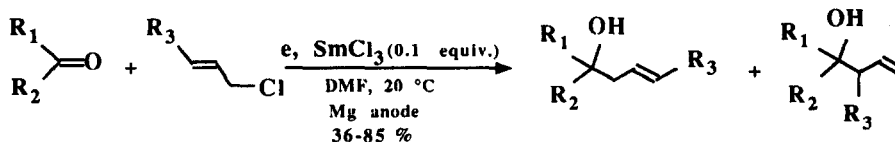


Tetrahedron Lett. 1993, 34, 1471

SmCl₃-CATALYZED ELECTROCHEMICAL REDUCTIVE ALLYLATION OF KETONES

H. Hebli, E. Duñach*, J. Périchon

Laboratoire d'Electrochimie, Catalyse et Synthèse Organique, C.N.R.S., 2, rue H. Dunant, 94320 Thiais, France



Tetrahedron Lett. 1993, 34, 1475

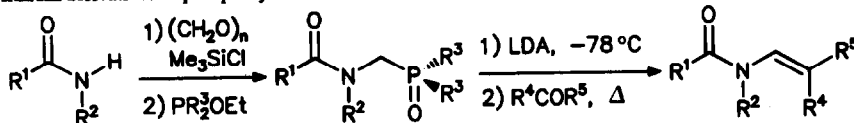
A Convenient Synthesis of Enamides and Dienamides by Horner-Wittig and Wadsworth-Emmons Reactions

Axel Couture,* Eric Deniau and Pierre Grandclaude

Laboratoire de Chimie Organique Physique associé au CNRS, Université des Sciences et Technologies de Lille, 59655 Villeneuve d'Ascq, France

Tetrahedron Lett. 1993, 34, 1479

Various enamides and dienamides has been efficiently prepared by reacting suitable aldehydes and ketones with the lithium derivatives of phosphorylated carboxamides.



THE YELLOW TOXINS PRODUCED BY *CERCOSPORA BETICOLA*, PART II : ISOLATION AND STRUCTURE OF BETICOLINS 3 AND 4.

M.-L. Milat¹, J.-P. Blein¹, Jacques Einhorn², J.-C. Tabet³, P.-H. Ducrot⁴ and J.-Y. Lallemand⁴.

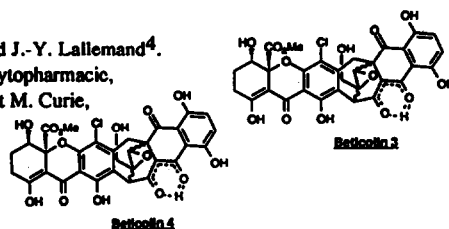
¹Lab. de Phytopharmacie, INRA, BV1540, F-21034 Dijon Cedex; ²Lab. de Phytopharmacie,

INRA, F-78026 Versailles Cedex; ³Lab. de Chimie structurale, Université P. et M. Curie,

F-75005 Paris Cedex; ⁴Lab. de Synthèse Organique de l'Ecole Polytechnique,

F-91128 Palaiseau Cedex, France.

The isolation and the structures of beticolins 3 and 4 are described ; they are shown to be hydroxy derivatives of beticolins 1 and 2 respectively.



Tetrahedron Lett. 1993, 34, 1483

Stereoselective Bakkane Synthesis: (±)-Palmosalide C

Benoît Hartmann, Jean-Pierre Deprés, and Andrew E. Greene*

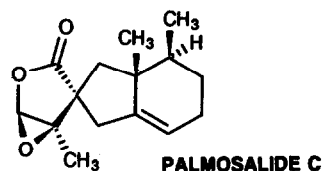
Université Joseph Fourier, LEDSS, BP 53X, 38041 Grenoble Cedex, France, and

Marco E. Freire de Lima, Universidade Federal do Rio de Janeiro, Inst. de

Química, RJ, 21.944 Brazil

Tetrahedron Lett. 1993, 34, 1487

Palmosalide C, a spiro β,γ-epoxy-γ-butyrolactone sesquiterpene from the soft coral *Coelogorgia palmosa*, has been stereoselectively prepared in racemic form from 1, 6-dimethylcyclohexene.



First General Synthesis of Monosilyl Acetals.

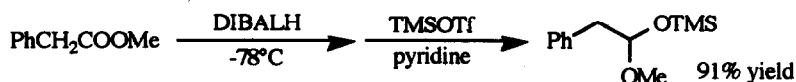
Trimethylsilyl Trapping of the Intermediate in DIBALH Reduction of Carboxylic Acid Esters using Trimethylsilyl Trifluoromethanesulfonate

Syun-ichi Kiyooka,* Masashi Shirouchi, and Yuichi Kaneko

Department of Chemistry, Kochi University, Akebono-cho, Kochi 780, Japan

Tetrahedron Lett. 1993, 34, 1491

The intermediate generated by the DIBALH reduction of carboxylic acid esters reacts with trimethylsilyl trifluoromethanesulfonate (TMSOTf) in the presence of pyridine to afford the corresponding monosilyl acetals in good yields.



Tetrahedron Lett. 1993, 34, 1495

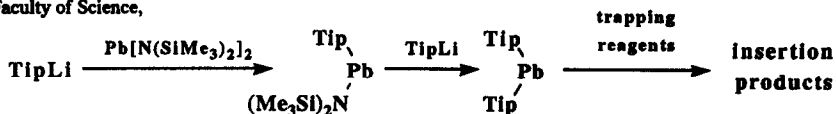
Formation and Reactions of a Kinetically Stabilized Diarylplumbylene

Kazusato Shibata, Norihiro Tokitoh, and Renji Okazaki*

Department of Chemistry, Faculty of Science,

The University of Tokyo,

Hongo, Tokyo 113, Japan



Reaction of TipLi (Tip = 2,4,6-triisopropylphenyl) with Pb(II) electrophiles resulted in the formation of a plumbylene which was trapped by MeI, (PhS)₂, (PhSe)₂ to give insertion products.

Tetrahedron Lett. 1993, 34, 1499

X-ray Structural Analysis of Hexakis[2-(3,5-di-*t*-butylphenyl)-2-methylpropyl]diplumbane

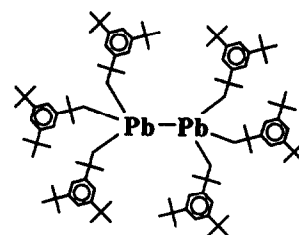
Kazusato Shibata, Norihiro Tokitoh, and Renji Okazaki*

Department of Chemistry, Faculty of Science,

The University of Tokyo,

Hongo, Tokyo 113, Japan

Pb-Pb = 2.9448(6) Å



X-ray structural analysis has shown that the titled sterically congested diplumbane has the longest Pb-Pb distance ever reported.

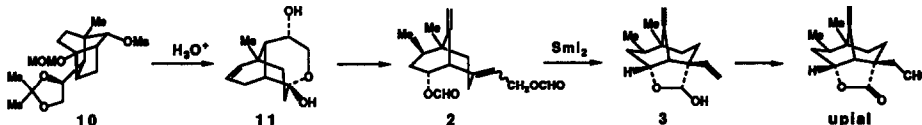
Tetrahedron Lett. 1993, 34, 1501

TOTAL SYNTHESIS OF UPIAL

Hiroto Nagaoka,^{a*} Kimiyuki Shibuya^b and Yasuji Yamada^{a*}

^aTokyo College of Pharmacy, Horinouchi, Hachioji, Tokyo 192-03, Japan

^bTokyo Research Laboratories Kowa Co. Ltd., 2-17-43 Noguchi-cho, Higashimurayama, Tokyo 189, Japan



Highly stereocontrolled synthesis of marine sesquiterpene upial was achieved from D-mannitol via fragmentation reaction of tricyclic compound 10 and SmI₂-induced cyclization of diformate 2.

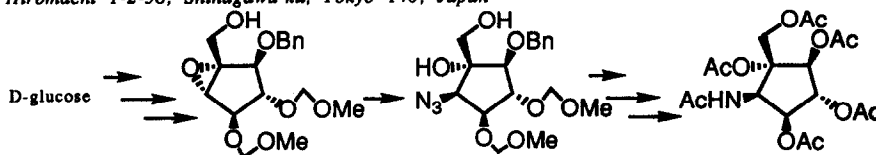
Tetrahedron Lett. 1993, 34, 1505

SYNTHESIS AND ABSOLUTE CONFIGURATION OF TREHAZOLIN AMINOCYCLITOL MOIETY

Yoshiyuki Kobayashi, Hideki Miyazaki, Masao Shiozaki*

New Lead Research Laboratories, Sankyo Co., Ltd.

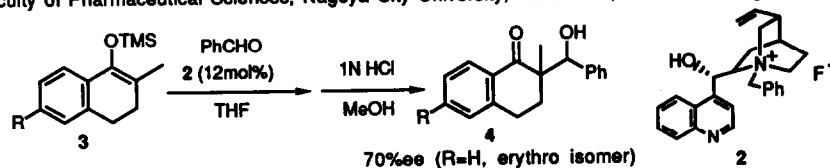
Hiromachi 1-2-58, Shinagawa-ku, Tokyo 140, Japan



**Chiral Quarternary Ammonium Fluoride
A New Reagent for Catalytic Asymmetric Aldol Reaction**

Akira Ando, Toshiro Miura, Toshiaki Tatematsu, and Takayuki Shiomi

Faculty of Pharmaceutical Sciences, Nagoya City University, Tanas-e-dori, Mizuho-ku, Nagoya 467, JAPAN

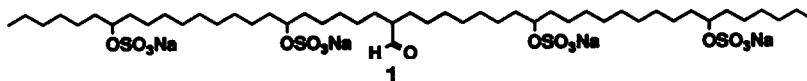


**Toxadocial A: A Novel Thrombin Inhibitor from
the Marine Sponge *Toxadocia cylindrica***

Youichi Nakao, Shigeki Matsunaga, and Nobuhiro Fusetani*

Laboratory of Marine Biochemistry, Faculty of Agriculture, The University of Tokyo, Bunkyo-ku, Tokyo, 113, Japan

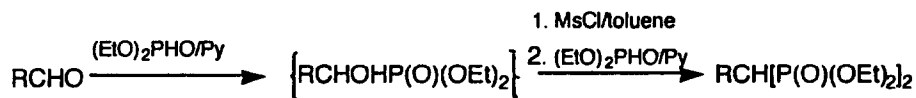
Abstract. A unique thrombin inhibitor, named toxadocial A (1) has been isolated from the marine sponge *Toxadocia cylindrica*, and its structure was determined by spectroscopic and chemical methods to be a per-sulfated 7, 17, 31, 41-tetrahydroxyheptatetracontane-23-carbaldehyde.



Studies on Organophosphorus Compounds 68.

A New and Facile Synthetic Approach to

Alkylidenebisphosphonates. Chaozhong Li and Chengye Yuan*, Shanghai Institute of Organic Chemistry, Chinese Academy of Sciences, Shanghai 200032, China.

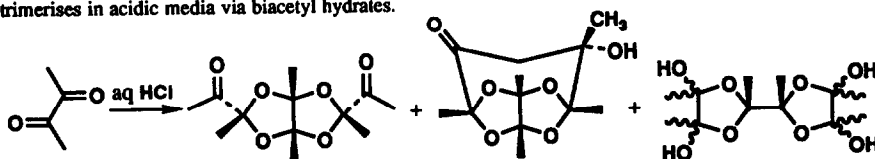


On the Formation of Biacetyl Trimers in Acidic Media

Kai Baldenius, P Dallman and John Hudec*, Department of Chemistry,

The University, Southampton, SO9 5NH

Biacetyl trimerises in acidic media via biacetyl hydrates.

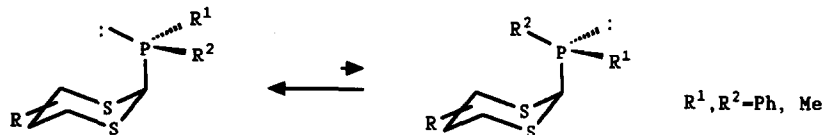


LACK OF MANIFESTATION OF THE EXO-ANOMERIC EFFECT IN S-C-P(:) SYSTEM

Piotr P. Graczyk and Marian Mikołajczyk

Centre of Molecular and Macromolecular Studies, P.A.S.

Lodz 90-363, Sienkiewicza 112, POLAND

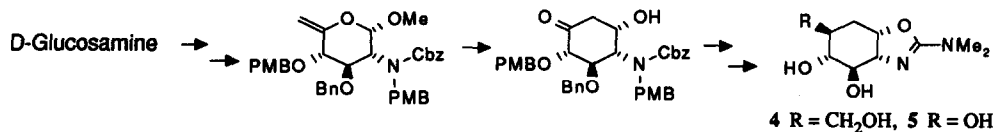


THE SYNTHESIS OF PSEUDO-SUGARS RELATED TO

ALLOSAMIZOLINE. David F. Corbett, David K. Dean,* and Stephen R.

Robinson, SmithKline Beecham Pharmaceuticals, Great Burgh, Yew Tree Bottom Road, Epsom, Surrey KT18 5XQ, UK.

Bicyclic pseudo-sugars **4** and **5** were synthesised from *D*-glucosamine utilizing a Ferrier rearrangement as a key step.



A MILD AND SELECTIVE C-3 REDUCTIVE ALKYLATION OF INDOLES

Julie E. Appleton, Kevin N. Dack, Andrew D. Green and John Steele*

Discovery Chemistry Department, Pfizer Central Research, Sandwich, Kent CT13 9NJ

The TFA-Et₃SiH mediated reaction of indoles with aromatic aldehydes generates good yields of the C-3 reductive alkylation products.

