

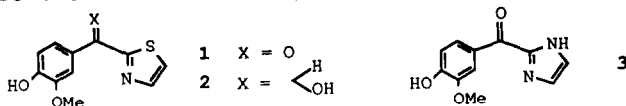
GRAPHICAL ABSTRACTS

Tetrahedron Lett. 29,1099(1988)

Thiazole and Imidazole Metabolites from the
Ascidian *Aplydium pliciferum*.

Lily Arabshahi and Francis J. Schmitz*
Department of Chemistry, University of Oklahoma, Norman, Oklahoma 73019

Compounds 1-3 were isolated from the Australian ascidian *Aplydium pliciferum*. Structures were established from spectral data. 1 and 2 were synthesized.

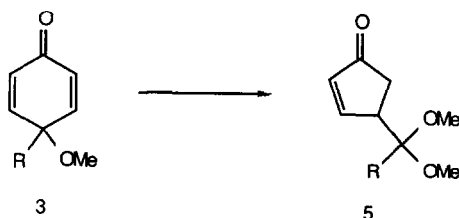


Tetrahedron Lett. 29,1103(1988)

PHOTOREARRANGEMENT OF 4-ALKYL-4-ALKOXY-2,5-CYCLOHEXADIENONES: SYNTHESIS OF 4-(ALKYLDIMETHOXYMETHYL)-CYCLOPENT-2-EN-1-ONES¹

Arthur G. Taveras, Jr.
Department of Chemistry, Rensselaer Polytechnic
Institute, Troy, NY 12180-3590

The photorearrangements of 3 afford 5.

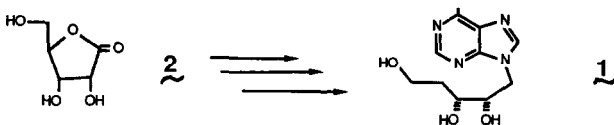


Tetrahedron Lett. 29,1107(1988)

SYNTHESIS OF 2'(S), 3'(R), 5'-TRIHYDROXPENTYLADENINE

Chia-Lin J. Wang*, Simon H. Stam, and Joseph M. Salvino
E. I. DuPont de Nemours and Company, Inc., Medical Products Department
Pharmaceutical Research and Development Division, Experimental Station
Wilmington, DE 19898

A synthesis of 2'(S), 3'(R), 5'-trihydroxypentyladenine (1) from D-ribonic acid γ -lactone (2) is described.



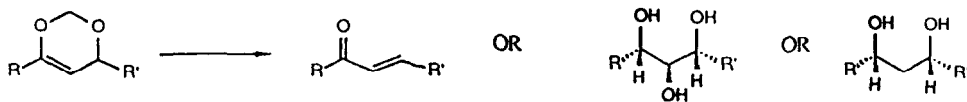
Tetrahedron Lett. 29,1111(1988)

SYNTHESIS OF 4,6-DIALKYL-1,3-DIOXINS.

VERSATILE INTERMEDIATES FOR THE PREPARATION OF
(E)-ALKENONES, anti,anti-1,2,3-TRIOLS AND syn-1,3-DIOLS.

R. L. Funk* and G. L. Bolton, Dept. of Chemistry, University of Nebraska, Lincoln, NE 68588

The dialkyl dioxins are thermally labile (providing enones) and undergo stereoselective hydroboration or hydrogenation reactions to provide anti,anti-1,2,3-triols and syn-1,3 diols.



Tetrahedron Lett. 29, 1115 (1988)

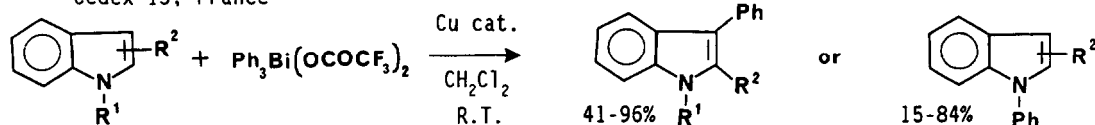
COPPER CATALYSED PHENYLATION OF INDOLES BY TRIPHENYL-BISMUTH BIS-TRIFLUOROACETATE

Derek H.R. Barton^{a,b}, Jean-Pierre Finet^{a,c}, and Jama! Khamsi^{a,b}

a. Institut de Chimie des Substances Naturelles, C.N.R.S., 91198 Gif-sur-Yvette, France

b. Department of Chemistry, Texas A&M University, College Station, Texas 77843, U.S.A.

c. Laboratoire de Chimie Organique B, Faculté des Sciences, St. Jérôme, 13397 Marseille Cedex 13, France

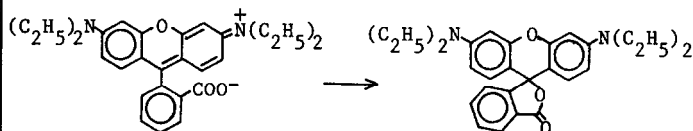


Tetrahedron Lett. 29, 1119 (1988)

ERYTHROMYCIN AS A SUPRAMOLECULAR RECEPTOR

Mónica Barra and Rita H. de Rossi*

Instituto de Investigaciones en Físico-Química Orgánica de Córdoba (INFIQC), Dpto. de Química Orgánica, Facultad de Cs. Químicas, U.N.C., Suc. 16, (5016) - Córdoba - ARGENTINA -



The lactonization reaction in chloroform, dioxane or DMSO is catalyzed by erythromycin.

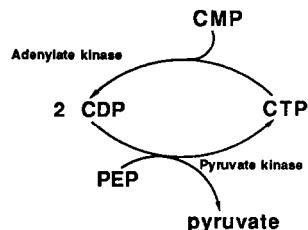
Tetrahedron Lett. 29, 1123 (1988)

GENERATION OF CYTIDINE 5'-TRIPHOSPHATE USING ADENYLATE KINASE

Ethan S. Simon, Mark D. Bednarski, and George M. Whitesides*

Department of Chemistry, Harvard University, Cambridge, MA 02138 USA

A membrane-enclosed enzyme reactor converts cytidine 5'-monophosphate (CMP) and phosphoenolpyruvate (PEP) to cytidine 5'-triphosphate (CTP) and pyruvate on a gram scale.

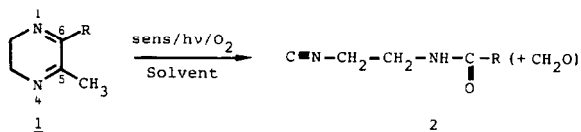


Tetrahedron Lett. 29, 1127 (1988)

PHOTOSENSITIZED OXYGENATION OF 2,3-DIHYDROPYRAZINES: UNEXPECTED SYNTHESIS OF ISONITRILES

Klaus Gollnick* and S.Koegler, Institut für Organische Chemie der Universität, Karlstrasse 23, D-8000 München 2, Germany

5-Methyl substituted 2,3-dihydropyrazines 1 react with singlet oxygen to isonitriles 2.

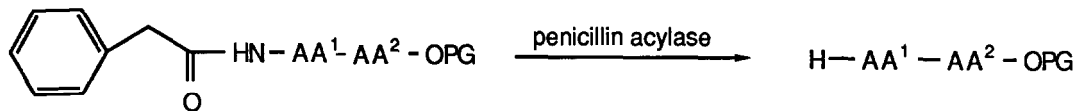


Tetrahedron Lett. 29, 1131 (1988)

THE USE OF PENICILLIN ACYLASE FOR SELECTIVE N-TERMINAL DEPROTECTION IN PEPTIDE SYNTHESIS

Herbert Waldmann

Joh. Gutenberg Univ. Mainz, Institut für Organische Chemie, Becherweg 18-20, D-6500 Mainz



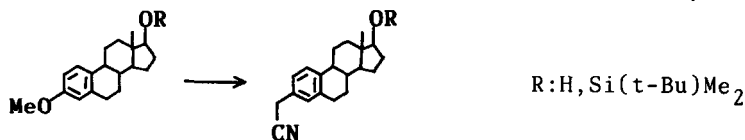
PG = methyl; benzyl; allyl; tert-butyl.

Tetrahedron Lett. 29, 1135 (1988)

A NOVEL ROUTE TO 3-ALKYLATED ESTRA-1,3,5(10)-TRIENES

Hermann Künzer*, Manfred Thiel

Research Laboratories, Schering AG Berlin/Bergkamen, Müllerstraße 170-178, D-1000 Berlin 65, West Germany



Substitution via the corresponding protected (η^6 -arene) Cr(CO)₃ complexes

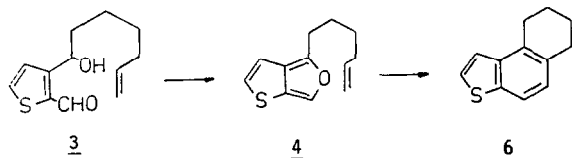
Tetrahedron Lett. 29, 1137 (1988)

INTRAMOLEKULARE CYCLOADDITIONEN MIT ISOBENZOFURANEN - III. EIN HYDRIERTES NAPHTHO[2,1-b]THIOPHEN AUS EINEM 1-ALKENYL-THIENO[2,3-c]FURAN.

A. Schöning und W. Friedrichsen*

Institut für Organische Chemie der Universität Kiel, Olshausenstraße 40/60, D-2300 Kiel, FRG

The synthesis of 6 utilizing 4 as an intermediate is described.

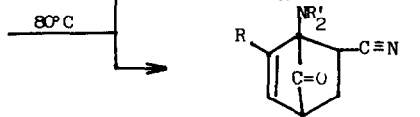
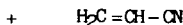
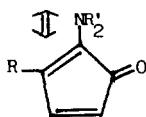
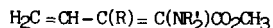


Tetrahedron Lett. 29, 1139 (1988)

CAPTODATIVE DIENES IN CYCLOADDITION CONDITIONS: SYNTHESIS OF NEW BICYCLO (3.2.0) HEPT 3-ENE 2-ONES

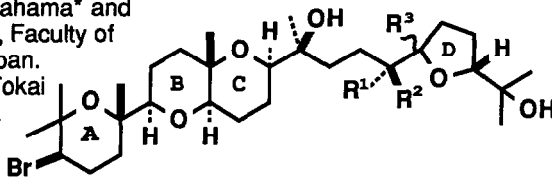
M. Bourhis*, R. Golse, E. Adjanioun, M. Goursolle, J.J. Bosc
Laboratoire de chimie Générale, Université de Bordeaux II, France

P. Picard
Laboratoire de Cristallographie, Université de Bordeaux I, France



Tetrahedron Lett. 29, 1143 (1988)

TOTAL SYNTHESSES OF (+)-THYRSIFEROL AND (+)-VENUSTATRIOL Masaru Hashimoto, Toshiyuki Kan, Koji Nozaki, Mitsutoshi Yanagiya, Haruhisa Shirahama* and Takeshi Matsumoto†. Department of Chemistry, Faculty of Science, Hokkaido University, Sapporo 060, Japan. †Department of Chemistry, Faculty of Science, Tokai University, Hiratsuka, Kanagawa 259-12, Japan.



Triterpenoid polyethers (+)-thyriferol (**1a**) and (+)-venustatriol (**1d**) were totally synthesized from trivial compounds.

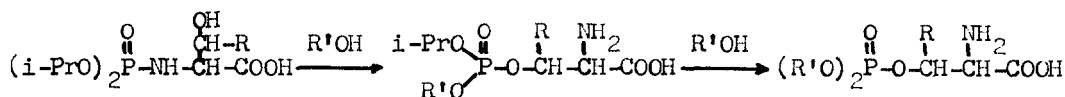
1a R¹=H, R²=OH, R³=α-CH₃, **1d** R¹=OH, R²=H, R³=β-CH₃

STUDIES ON PHOSPHOSERINE AND PHOSPHOTHREONINE DERIVATIVES: N-DIISOPROPYLOXY PHOSPHORYL-SERINE AND -THREONINE IN ALCOHOLIC MEDIA

Tetrahedron Lett. 29, 1145 (1988)

Chu-Biao Xue, Ying-Wu Yin, Yu-Fen Zhao*

Institute of Chemistry, Academia Sinica, Beijing, China

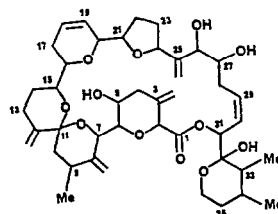


Tetrahedron Lett. 29, 1149 (1988)

GONIODOMIN A, A NOVEL POLYETHER MACROLIDE FROM THE DINOFLAGELLATE GONIODOMA PSEUDOGONIAULAX

Masahiro Murakami^a, Kentaro Makabe, Katsumi Yamaguchi, Shoji Konosu and Markus R. Wälchli^b

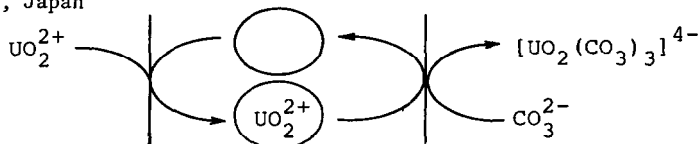
^a Laboratory of Marine Biochemistry, Faculty of Agriculture, The University of Tokyo, Bunkyo-ku, Tokyo 113, Japan. ^b Bruker Japan Co., Ltd., Yatabe-machi, Tsukuba-gun, Ibaraki 305, Japan



Tetrahedron Lett. 29, 1153 (1988)

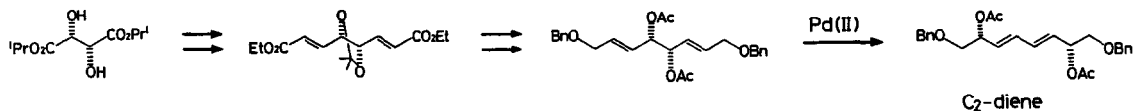
ACTIVE TRANSPORT OF URANYL ION BY MACROCYCLIC POLYCARBOXYLATE-HYDROPHOBIC AMMONIUM CARRIERS
Y. Kobuke*, I. Tabushi and O. Kohki

Department of Synthetic Chemistry, Faculty of Engineering, Kyoto University, Yoshida, Kyoto 606, Japan



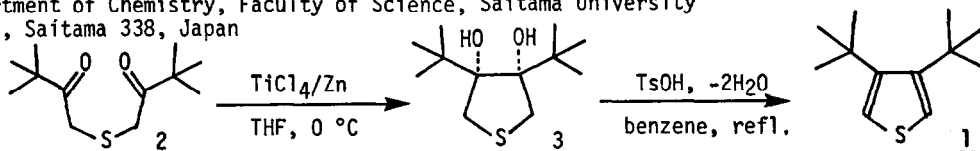
Synthesis of Axially Dissymmetric 3,5-Octadiene Framework with C₂ Chirality
via Palladium(II)-catalyzed Twofold [3.3]Sigmatropic Rearrangement

S. Saito, S. Hamano, H. Moriyama, K. Okada, and T. Moriwake
Depart. of Appl. Chem., Facul. of Engin., Okayama Univ., Tsushima, Okayama, Japan 700



SYNTHESIS AND REACTIONS OF 3,4-DI-t-BUTYLTHIOPHENE

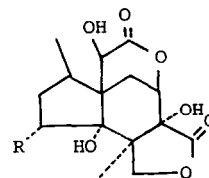
Juzo Nakayama, Shoji Yamaoka, and Masamatsu Hoshino
Department of Chemistry, Faculty of Science, Saitama University
Urawa, Saitama 338, Japan



Sterically overcrowded thiophene 1 was easily prepared from readily accessible 2.
Reactions of 1 with a variety of electrophiles were examined.

NEW ANISATIN-LIKE SESQUITERPENE LACTONES FROM
PERICARPS OF ILICIIUM MAJUS

C.-S. Yang, I. Kouno, N. Kawano, and S. Sato
Beijing College of Chinese Traditional Medicine,
People's Republic of China, Faculty of Pharmaceut.
Sciences, Nagasaki University, Nagasaki, Japan, and
Analytical and Metabolic Research Lab., Sankyo Co. Ltd.,
Tokyo, Japan

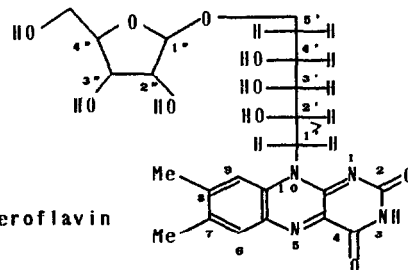


Isolation and structure elucidation of majucin (R=OH) and neomajucin (R=H).

LAMPTEROMYCES BIOLUMINESCENCE (2)
LAMPTEROFLAVIN, A LIGHT EMITTER IN THE
LUMINOUS MUSHROOM, *L. japonicus*

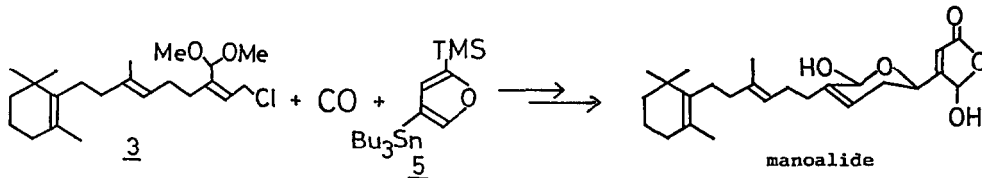
Minoru Isobe,* Duangchan Uyakul and Toshio Goto
Laboratory of Organic Chemistry, Faculty of Agriculture,
Nagoya University, Chikusa, Nagoya 464, Japan

Lampteroflavin



Tetrahedron Lett. 29, 1173 (1988)

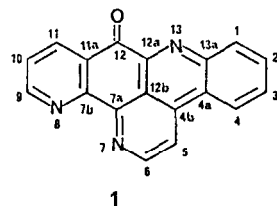
HIGHLY EFFICIENT TOTAL SYNTHESIS OF MANOALIDE AND SECO-MANOALIDE VIA Pd(0) CATALYZED COUPLING OF ALLYLHALIDE WITH CO AND 2-SILYL-4-STANNYLFURAN†
 Shigeo Katsumura*, Shinya Fujiwara, and Sachihiko Isoe*, Institute Of Organic Chemistry, Faculty of Science, Osaka City University, Osaka 558, Japan



Tetrahedron Lett. 29, 1177 (1988)

ASCIDIDEMIN, A NOVEL PENTACYCLIC AROMATIC ALKALOID WITH POTENT ANTI-LEUKEMIC ACTIVITY FROM THE OKINAWAN TUNICATE *DIDEMNUM* SP.

Jun'ichi Kobayashi*, Jie-fei Cheng, Hideshi Nakamura, Yasushi Ohizumi, Yoshimasa Hirata, Takuma Sasaki, Tomihisa Ohta and Shigeo Nozoe
 Mitsubishi-Kasei Institute of Life Sciences, Minamiooya, Machida, Tokyo 194, Japan,
 Faculty of Pharmacy, Meijo University, Nagoya 468, Japan, Cancer Research Institute,
 Kanazawa University, Kanazawa 920, Japan, Pharmaceutical Institute, Tohoku
 University, Sendai 980, Japan

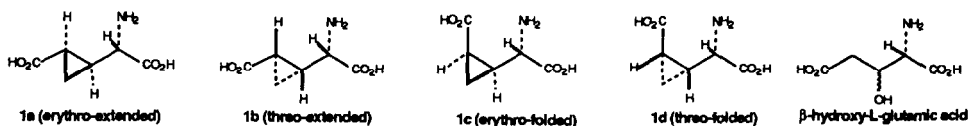


Tetrahedron Lett. 29, 1181 (1988)

SYNTHESES OF TRANS- AND CIS- α -(CARBOXYCYCLOPROPYL)GLYCINES. NOVEL NEUROINHIBITORY AMINO ACIDS AS L-GLUTAMATE ANALOGUE

K. Yamanoi, Y. Ohfuné*, Suntory Inst. for Bioorganic Research, Shimamoto-cho, Osaka 618, Japan
 K. Watanabe, P. N. Li, H. Takeuchi, School of Medicine, Gifu University, Gifu 500, Japan

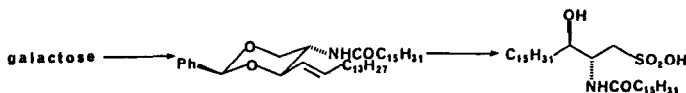
Syntheses of four diastereomers of optically active α -(carboxycyclopropyl)glycines and their neuropharmacological studies using β -hydroxy-L-glutamate sensitive neuron are described.



Tetrahedron Lett. 29, 1185 (1988)

SYNTHESIS OF D-ERYTHRO-1-DEOXYDIHYDRO-CERAMIDE-1-SULFONIC ACID

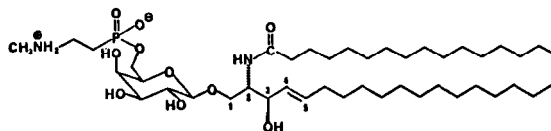
Kinji Ohashi, Yoshiro Yamagiwa, Tadao Kamikawa* and Morris Kates
 Department of Chemistry, Faculty of Science and Technology, Kinki University, Kowakae,
 Higashi-Osaka, Osaka 577, Japan
 Department of Biochemistry, Faculty of Science and Engineering, University of Ottawa,
 Ottawa K1N 6N5, Canada



Tetrahedron Lett. 29, 1189 (1988)

SYNTHESIS OF PHOSPHONOSPHINGOLIPID FOUND IN MARINE SNAIL TURBO CORNUTUS

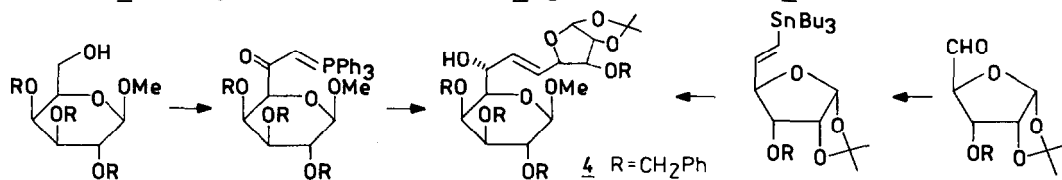
Kinji Ohashi, Sunji Kosai, Mitsuo Arizuka, Takashi Watanabe, Mikio Fukunaga, Koji Monden, Takao Uchikoda, Yoshiro Yamagiwa and Tadao Kamikawa*
Department of Chemistry, Faculty of Science and Technology, Kinki University, Kowakae, Higashi-Osaka, Osaka 577, Japan



Tetrahedron Lett. 29, 1193 (1988)

A NEW CONVENIENT APPROACH TO HIGHER SUGAR ALLYLIC ALCOHOLS

Slawomir Jarosz, Inst. Org. Chem., Polish Acad. Sci., 01-224 Warszawa
Alcohol 4 was synthesized either from D-galactose or from D-ribose derivatives

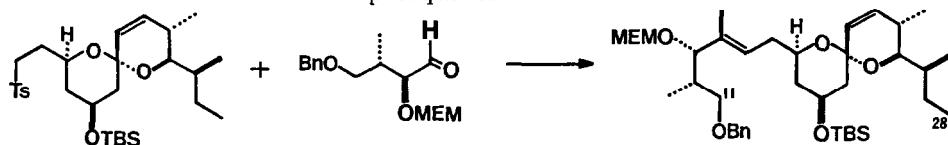


Tetrahedron Lett. 29, 1197 (1988)

SYNTHESIS OF THE C11-C28 SUBUNIT OF THE AVERMECTINS

Masahiro Hirama,* Takeshi Nakamine, and Shô Itô
Department of Chemistry, Tohoku University, Sendai 980, Japan

Stereoselective construction of the trisubstituted double bond of C11-C28 subunit of avermectin Ala and Bla via a five-step sequence.

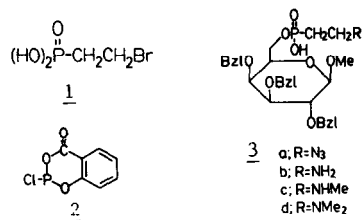


Tetrahedron Lett. 29, 1199 (1988)

AN APPROACH TOWARDS THE FORMATION OF AN ESTER BOND BETWEEN THE PRIMARY HYDROXYL OF A β -D-GALACTOPYRANOSIDE AND 2-AMINOETHYLPHOSPHONIC ACID AND ITS N-METHYL SUBSTITUTED DERIVATIVES

C.E. Dreef, A.R.P.M. Valentijn, E. de Vroom, G.A. van der Marel and J.H. van Boom
Gorlaeus Laboratories, P.O. Box 9502, 2300 RA Leiden, The Netherlands

The easily accessible reagents 1 and 2 could be employed successfully for the preparation of the methyl β -D-galactopyranoside phosphonate derivatives 3a-d.

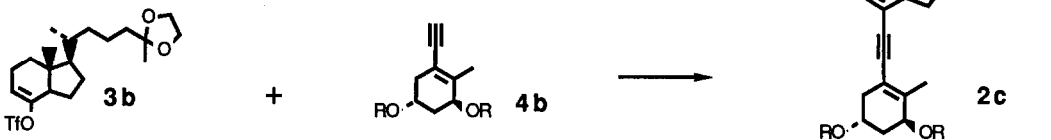


PALLADIUM-CATALYZED SYNTHESIS OF DIENYNES RELATED TO 1 α ,25-DIHYDROXYVITAMIN D₃

Tetrahedron Lett. 29,1203 (1988)

L. Castedo, J.L. Mascareñas, A. Mouriño and L.A. Sarandeses
Departamento de Química Orgánica. Facultad de Química y Sección de Alcaloides del C.S.I.C.
Santiago de Compostela. Spain.

The dienyne **2c** precursor of the natural hormone 1 α ,25-(OH)₂-D₃ was synthesized via palladium catalyzed coupling of **3b** and **4b**.



A CONCISE SYNTHESIS OF (+)CHOKOL A

Tetrahedron Lett. 29,1207 (1988)

David M. Lawler and Nigel S. Simpkins*

Department of Chemistry, Queen Mary College, Mile End Road, London, E1 4NS

ABSTRACT: The fungitoxic sesquiterpene chokol A was synthesized via a six step sequence which used the addition reaction of a functionalised cuprate reagent to cyclopentenone as the key step.

