

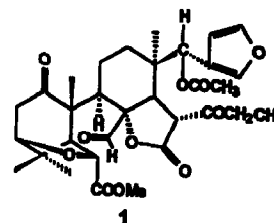
GRAPHICAL ABSTRACTS

Tetrahedron Letters, 1994, 35, 3437

CEDRELANOLIDE I, A NEW LIMONOID FROM CEDRELA

SALVADORENSIS. Rosabel Segura, José Calderón, Rubén A. Toecano, Atlano Gutiérrez, Instituto de Química, Universidad Nacional Autónoma de México, Coyoacán 04510, México D.F., México.
Rachel Mata, Facultad de Química, Universidad Nacional Autónoma de México, Coyoacán 04510, México, D.F., México.

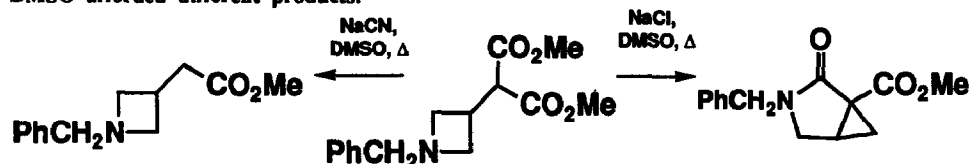
A new rearranged limonoid, cedrelanolido I (1), has been isolated from the stem bark of *Cedrela salvadorensis* (Meliaceae). The structure was unambiguously established by X-ray diffraction analysis.



Tetrahedron Letters, 1994, 35, 3441

DIVERGENT MECHANISMS FOR THE DEALKOXYCARBONYLA-TION OF A 2-(3-AZETIDINYL)MALONATE BY CHLORIDE AND CYANIDE. Paul J. Gilligan* and Paul J. Krenitsky, The DuPont Merck Pharmaceutical Co., P.O. Box 80353, Wilmington, DE 19880-0353

Dealkoxycarbonylation of dimethyl 2-(1-benzylazetid-3-yl)propane-1,3-dioate with NaCN or NaCl in wet DMSO afforded different products.

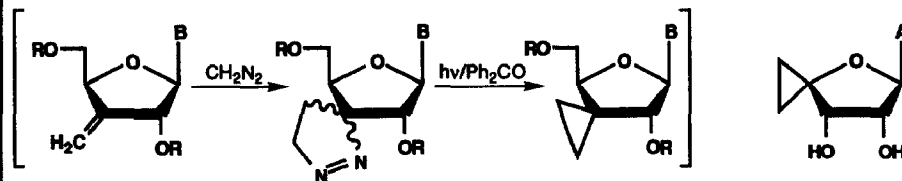


Tetrahedron Letters, 1994, 35, 3445

SYNTHESIS OF 3'-DEOXYADENOSINE-3'-SPIROCYCLOPROPANE,

3'-DEOXYURIDINE-3'-SPIROCYCLOPROPANE, AND 5'-DEOXY-

4',5'-METHANOADENOSINE Vicente Samano and Morris J. Robins,* Department of Chemistry, Brigham Young University, Provo, UT 84602, U.S.A.

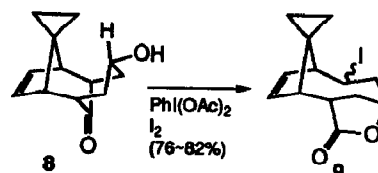


Tetrahedron Letters, 1994, 35, 3449

SYNTHETIC STUDIES ON TAXOL. PART II. β -FRAGMENTATION OF ALKOXY RADICALS IN MEDIUM-SIZED CARBOCYCLE SYNTHESIS.

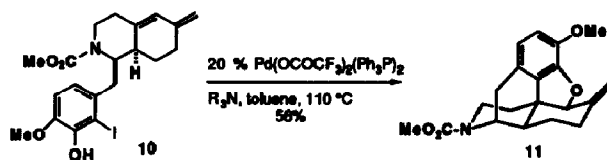
Jonghoon Oh, Jinhwa Lee, Shu-juan Jin, and Jin Kun Cha* Department of Chemistry, University of Alabama, Tuscaloosa, AL 35487, U.S.A.

An efficient excision of the keto bridge present in tricyclo[4.3.1.1^{2,5}]undecanones or tricyclo[5.3.1.1^{2,6}]dodecanones (e.g., 8 \rightarrow 9) has been accomplished by β -fragmentation of an alkoxy radical by the procedure of Suárez [PhI(OAc)₂-I₂].



Preparation of Opium Alkaloids by Palladium Catalyzed Bis-Cyclizations. Formal Total Synthesis of Morphine. Chang Y. Hong and Larry E. Overman,*
Department of Chemistry, University of California, Irvine, CA 92717-2025, USA

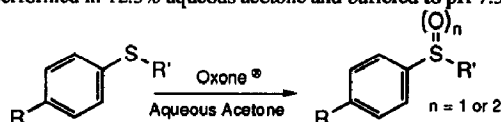
Palladium catalyzed cyclization of hydroisoquinoline diene **10** to afford the pentacyclic opiate **11** is the central step in a new synthesis of opium alkaloids.



A Mild, Inexpensive and Practical Oxidation of Sulfides.

Kevin S. Webb, SmithKline Beecham Pharmaceuticals,
Synthetic Chemistry Department, P.O.Box 1539, King of Prussia, Pennsylvania 19406

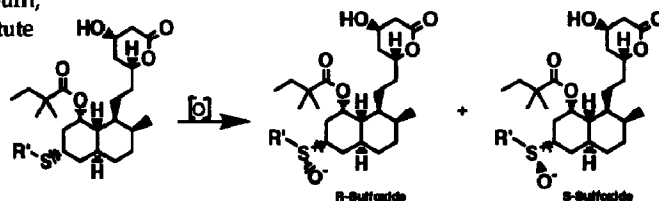
Several sulfides have been converted to sulfoxides or sulfones in modest to excellent yields. The oxidant was oxone[®] and the reactions were performed in 12.5% aqueous acetone and buffered to pH 7.5 - 8.0 with sodium bicarbonate.



DIASTERESELECTIVE OXIDATION OF SULFIDES TO SULFOXIDES. SYNTHESIS OF NOVEL C-6 SULFOXY TETRAHYDROMEVINIC ACIDS.

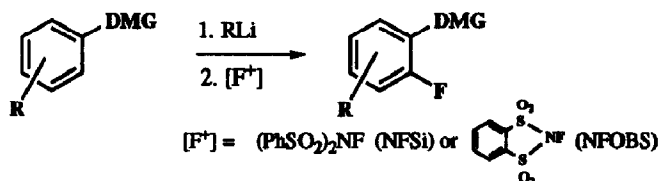
Kathleen M. Poss,* Sam T. Chao, Eric M. Gordon, Peggy J. McCann, Dinos P. Santafianos,
Sarah C. Traeger, Ravi K. Varma, and William N. Washburn,
The Bristol-Myers Squibb Pharmaceutical Research Institute
P.O. Box 4000, Princeton, New Jersey 08543-4000

The synthesis and diastereoselective oxidation of novel tetrahydropyridine lactone sulfides to sulfoxides is described.



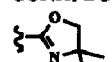
DIRECTED ORTHO METALATION - MEDIATED F⁺ INTRODUCTION. REGIOSPECIFIC SYNTHESIS OF FLUORINATED AROMATICS

Victor Snieckus,*¹ Francis Beaulieu,¹ Kunihiro Mohri,¹ Wei Han,² Christopher K. Murphy,² and Franklin A. Davis*²
¹Guelph-Waterloo Centre for Graduate Work in Chemistry, University of Waterloo, Waterloo, Ontario, CANADA N2L 3G1
²Department of Chemistry, Drexel University, Philadelphia, PA 19104, USA



DMG = Directed Metalation Group

CONHt-Bu



OMe

OCSNEt₂

SO₂NHMe

SO₂NR₂ (R = Me, Et)

S(O)_nt-Bu (n = 1,2)

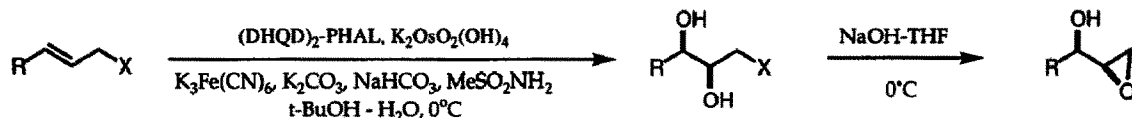
Asymmetric Dihydroxylation of Primary Allylic Halides and a Concise Synthesis of (-)-Diepoxybutane

Tetrahedron Letters, 1994, 35, 3469

Koen P.M. Vanhessche, Zhi-Min Wang and K.B. Sharpless*

Department of Chemistry, The Scripps Research Institute, 10666 North Torrey Pines Road, La Jolla, CA 92037, U.S.A.

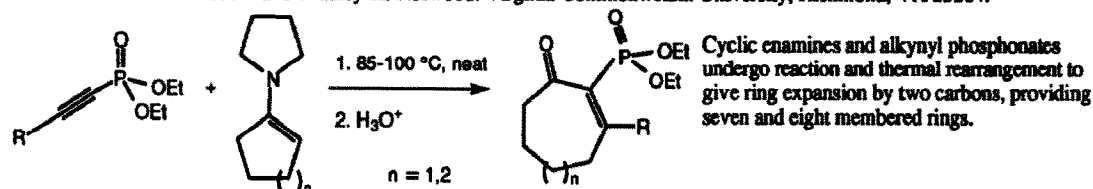
The asymmetric dihydroxylation (AD) of primary allylic halides is described. Subsequent base treatment affords *threo*-1,2-epoxy-3-ols in high yield.



CYCLOADDITION OF ENAMINES WITH ALKYNYLPHOSPHONATES. A ROUTE TO FUNCTIONALIZED MEDIUM SIZED RINGS.

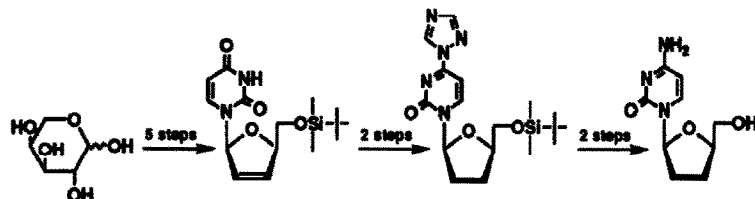
Tetrahedron Letters, 1994, 35, 3473

Suzanne M. Ruder* and Bradley K. Norwood. Virginia Commonwealth University, Richmond, VA 23284.



A Stereospecific Synthesis of 2',3'-Dideoxy-β-L-ctidine (β-L-ddC), A Potent Inhibitor Against Human Hepatitis B Virus (HBV) and Human Immunodeficiency Virus (HIV)

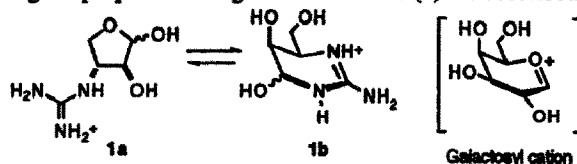
Tai-Shun Lin,* Mei-Zhen Luo, and Mao-Chin Liu, Department of Pharmacology and The Comprehensive Cancer Center, Yale University School of Medicine, New Haven, Connecticut 06520-8066, USA



SYNTHESIS OF A GUANIDINO-SUGAR AS A GLYCOSYL CATION MIMIC.

Christopher H. Fotsch and Chi-Huey Wong,* Department of Chemistry, The Scripps Research Institute, 10666 North Torrey Pines Road, La Jolla, California 92037

The synthesis and biological properties of a guanidine threose (1) are described.



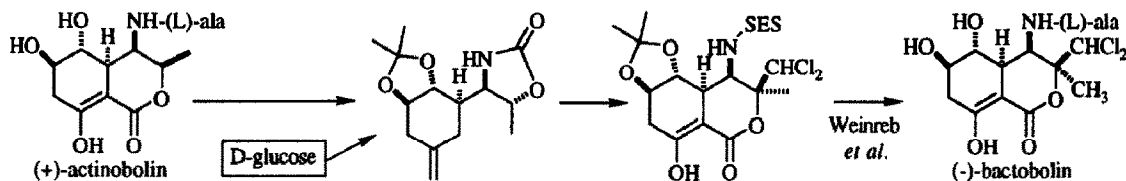
Tetrahedron Letters, 1994, 35, 3481

**SYNTHESIS OF (-)-BACTOBOLIN
FROM D-GLUCOSE AND FROM (+)-ACTINOBOLIN**

Tetrahedron Letters, 1994, 35, 3485

Dale E. Ward*, Yuanzhu Gai, and Brian F. Kaller

Department of Chemistry, University of Saskatchewan, Saskatoon, CANADA, S7N 0W0.

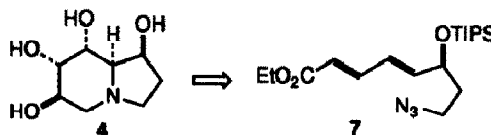


**AN AZIDE-DIENE CYCLOADDITION APPROACH TO
INDOLIZIDINE ALKALOIDS. AN ENANTIOSELECTIVE
SYNTHESIS OF 6,7-DIEPICASTANOSPERMINE**

Tetrahedron Letters, 1994, 35, 3489

No-Soo Kim, Chul Hyun Kang and Jin Kun Cha*
Department of Chemistry, University of Alabama,
Tuscaloosa, AL 35487, U.S.A.

A short, enantioselective synthesis of 6,7-diepicastanospermene (4) has been achieved by an intramolecular azide-diene 1,3-dipolar cycloaddition, followed by ring-opening of the resulting vinylaziridine and subsequent dihydroxylation.

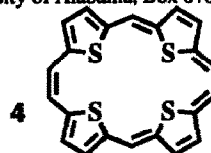


**TETRATHIA[22]ANNULENE[2,1,2,1]. A NEW
THIOPHENE-DERIVED AROMATIC MACROCYCLE.**

Tetrahedron Letters, 1994, 35, 3493

Zhongying Hu and Michael P. Cava*, Department of Chemistry, The University of Alabama, Box 870336,
Tuscaloosa, AL 35487-0336, U.S.A.

The first neutral aromatic porphyrinoid containing only sulfur bridges, tetrathia[22]annulene[2,1,2,1] (4), has been synthesized in four steps from 2-bromothiophene.

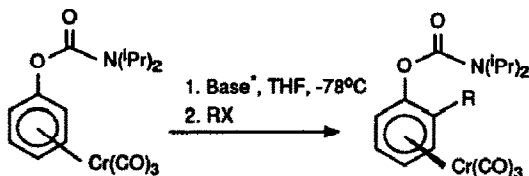


**PLANAR CHIRAL ARENE TRICARBONYLCHROMIUM COMPLEXES
VIA ENANTIOSELECTIVE DEPROTONATION / ELECTROPHILE ADDITION REACTIONS**

Tetrahedron Letters, 1994, 35, 3497

E. Peter Kündig* and Anna Quattropani

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



R = SiMe₃, CO₂Me, CONMe₂,
Me, CHO

yields: 71 - 93%

ee: 64 - 73%

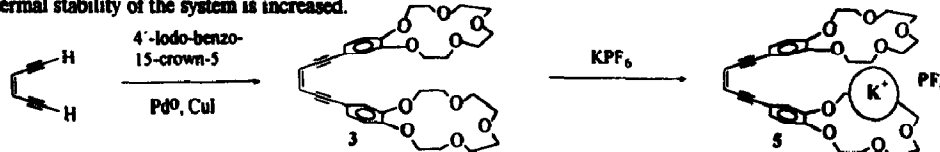
87 - 95% after cryst.

SYNTHESIS AND REACTIVITY OF THE FIRST BIS(CROWN ETHER) ENEDIYNE

Tetrahedron Letters, 1994, 35, 3501

Burkhard König* and Heike Rütters, Institut für Organische Chemie der Technischen Universität Braunschweig, Hagenring 30, D-38106 Braunschweig, Germany

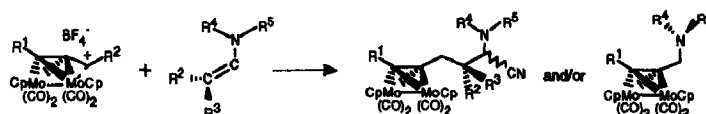
The bis(crown ether) enediyne **3** was obtained via a palladium catalyzed coupling reaction. By complexation with sodium and potassium ions the thermal stability of the system is increased.



Transition Metal Mediated Three Component Coupling Reactions with Enamines¹

Tetrahedron Letters, 1994, 35, 3505

Klaus-Dieter Roth, Institut für Organische Chemie, Universität Erlangen, Henkestr. 42, 91054 Erlangen



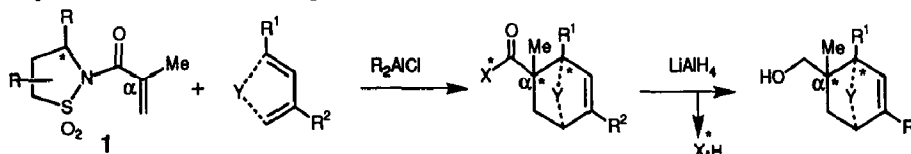
Three component coupling reactions of molybdenum stabilized propargyl cations with enamines and TMSCN are described. The solvent-dependent product distribution is discussed, leading to a general reaction scheme.

Asymmetric Diels-Alder Reactions of Chiral N-Methacryloylsultams with 1,3-Dienes

Tetrahedron Letters, 1994, 35, 3509

Wolfgang Oppolzer,* Boris M. Seletsky and Gérald Bernardinelli

Département de Chimie Organique, Université de Genève, CH-1211 Genève, Switzerland

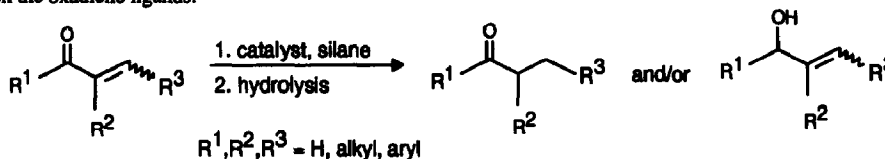


MOLYBDENUM OXADIENE CATALYSTS FOR THE CHEMOSELECTIVE HYDROSILYLATION OF α,β -UNSATURATED KETONES AND ALDEHYDES.

Tetrahedron Letters, 1994, 35, 3513

Thomas Schmidt, Max-Planck-Institut für Kohlenforschung, Kaiser-Wilhelm-Platz 1, D-45470 Mülheim an der Ruhr, Germany

Molybdenum oxadiene catalysts for the hydrosilylation of α,β -unsaturated carbonyl compounds exhibit variable chemoselectivity depending on the oxadiene ligands.



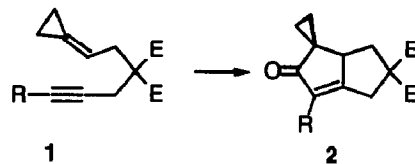
The Virtue of Methylene-cyclopropane Terminators in Intramolecular Pauson-Khand Reactions

Tetrahedron Letters, 1994, 35, 3517

Andreas Stolle,^{a,b} Heike Becker,^a Jacques Salaün,^b Armin de Meijere^a

Institut für Organische Chemie, Georg-August-Universität Göttingen,^a Tammannstraße 2, D-37077 Göttingen, Germany – Laboratoire des Carbocycles, Institut de Chimie Moléculaire d'Orsay,^b Université de Paris-Sud, F-91405 Orsay, France

1,6-Enynes with a methylene-cyclopropane moiety at the end undergo intramolecular Pauson-Khand reactions particularly efficiently.



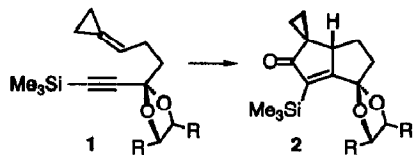
Enantioselective Construction of Spiro[cyclopropane-1,4'-bicyclo[3.3.0]oct-1-en-3-ones]

Tetrahedron Letters, 1994, 35, 3521

Andreas Stolle,^{a,b} Heike Becker,^a Jacques Salaün,^b Armin de Meijere^a

Institut für Organische Chemie, Georg-August-Universität Göttingen,^a Tammannstraße 2, D-37077 Göttingen, Germany – Laboratoire des Carbocycles, Institut de Chimie Moléculaire d'Orsay,^b Université de Paris-Sud, F-91405 Orsay, France

Intramolecular Pauson-Khand reactions of enynes **1** with a chiral 1,3-dioxolane moiety gave spiro[cyclopropane-1,4'-bicyclo[3.3.0]oct-1-en-3-ones] **2** with a diastereoselectivity of up to 6.4 : 1.



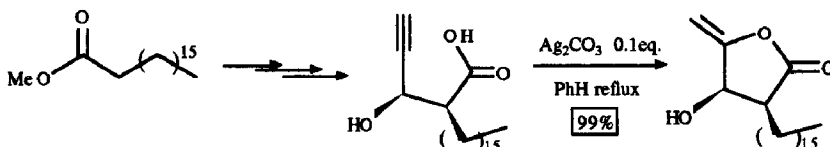
SILVER CATALYZED HETEROCYCLIZATION: FIRST TOTAL SYNTHESIS OF THE NATURALLY OCCURRING CIS-2-HEXADECYL-3-HYDROXY-4-METHYLENE BUTYROLACTONE

Tetrahedron Letters, 1994, 35, 3525

V. Dalla, P. Pale,*

Laboratoire de chimie organique physique, associé au CNRS, Université de Reims-Champagne-Ardenne 51100 Reims, France.

The title compound was obtained in 4 steps with an overall yield of 64% with the silver-catalyzed cyclization of the corresponding substituted β -hydroxy- γ -acetylenic acid as the key-step.



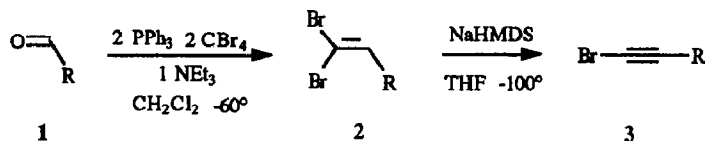
AN IMPROVED PROCEDURE FOR ALDEHYDE-TO-ALKYNE HOMOLOGATION VIA 1,1-DIBROMOALKENES; SYNTHESIS OF 1-BROMOALKYNES.

Tetrahedron Letters, 1994, 35, 3529

D. Grandjean, P. Pale, J. Chucho

Laboratoire de chimie organique physique, URA CNRS 459, Université de Reims-Champagne-Ardenne 51100 Reims, France.

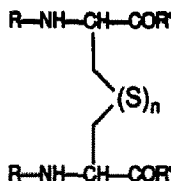
1,1-Dibromoalkenes, 1-bromoalkynes and alkynes could be obtained in excellent yields by homologation of functionalized aldehydes through a modified Mc Kevlie-Corey procedure.



Preparation of Trisulfide Derivatives of Cystine and their Formation as By-products during Peptide Synthesis.

B. Parmentier, M. Moutiez, A. Tartar and C. Sergheraert*

Service de Chimie des Biomolécules, associé au CNRS. Institut Pasteur de Lille. 1 rue Calmette 59019 Lille (France).



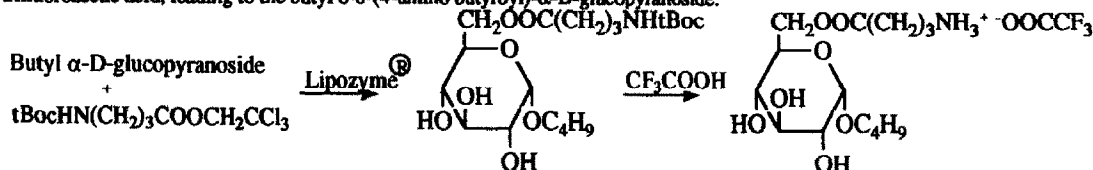
The formation of stable trisulfide derivatives of cystine ($n=3$) has been detected during peptide synthesis.

A method to prepare these compounds and higher polysulfides ($n = 4$ to 5) is described.

ENZYMATIC SYNTHESIS OF AMINO ACID ESTER OF BUTYL α -D-GLUCOPYRANOSIDE.

Jean Fabre, François Paul*, Pierre Monsan, Casimir Blonski \diamond , Jacques Périé \diamond . BioEurope, 4 impasse Didier Daurat, BP 4196, 31031 Toulouse Cedex, France. \diamond Laboratoire de Chimie Organique Biologique, associé au C.N.R.S., Université Paul Sabatier, 118 route de Narbonne, 31062 Toulouse, France.

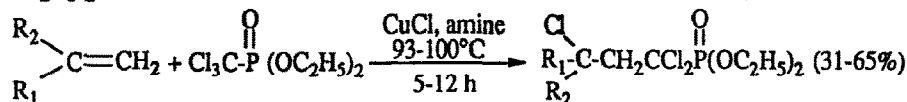
The regiospecific enzymatic esterification of butyl α -D-glucopyranoside with trichloro 2,2,2 ethyl N-tBoc 4-amino butyrate was achieved using Lipozyme ® avoiding time consuming protection-deprotection steps. The tBoc group was subsequently removed using trifluoroacetic acid, leading to the butyl 6-O-(4-amino butyryl)- α -D-glucopyranoside.



Addition of diethyl trichloromethylphosphonate to olefins catalysed by copper complexes.

Didier Villemin a , Frédérique Sauvaget a and Milan Hájek b ; a) ISMRA, Ecole Nationale Supérieure d'Ingénieurs de Caen, URA 480, F-14050 Caen cedex, France; b) Institute of Chemical Process Fundamentals, Academy of Sciences of Czech Republic, 16502 Prague 6-Suchbát, Czech Republic

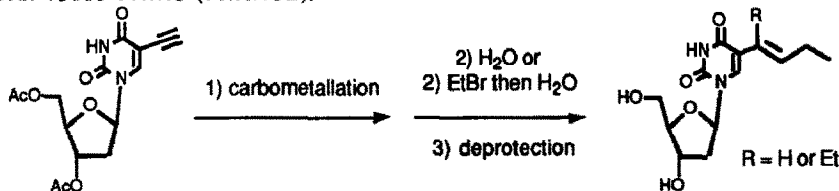
$\text{Cl}_3\text{CPO}(\text{OC}_2\text{H}_5)_2$ is added on olefins by non-chain catalytic reactions catalysed by copper amine complexes.



Carbometallation of 5-ethynyl-pyrimidine-2'-deoxy Nucleosides: Preparation of 5-(1-[E]-butenyl)- and 5-(3-[E]-hex-3-enyl)-2'-deoxyuridine.

Stanislas Czernecki,* Antoine Hoang and Jean-Marc Valéry.

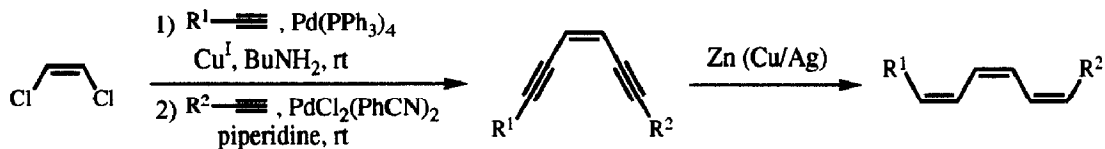
Laboratoire de Chimie des Glucides; Université Pierre et Marie Curie. 4 Place Jussieu. 75005 PARIS (FRANCE).



**Convenient One-Pot Synthesis of Functionalized
Unsymmetrical (Z) or (E)-Enediyne From (Z) or (E)
1,2-Dichloroethylene. An Efficient Route to (Z,Z,Z) and (Z,E,Z)-Trienes**

Tetrahedron Letters, 1994, 35, 3543

Mouâd Alami*, Benoit Crousse and Gérard Linstumelle Laboratoire de chimie, Ecole Normale Supérieure, 24 rue Lhomond, 75231 Paris Cedex 05, France

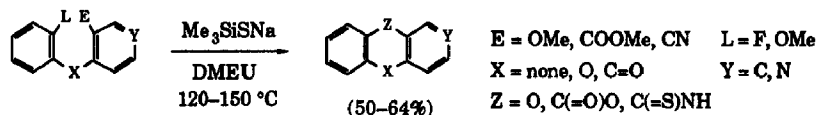


Sodium Trimethylsilanethiolate in Novel Cyclizations for

Synthesis of Aromatic Heterotricyclic Compounds. Long-Li Lai,*,†

Pen-Yuan Lin,† Wen-Hong Huang,† Min-Jen Shiao,† and Jih Ru Hwu,*,†,§ †Institute of Chemistry, Academia Sinica, Nankang, Taiwan 11529, R.O.C. and §Department of Chemistry, National Tsing Hua University, Hsinchu 30043, R.O.C.

A new method was developed for the synthesis of aromatic heterotricyclic compounds from diaryl starting materials by use of Me_3SiSNa in 1,3-dimethyl-2-imidazolidinone.



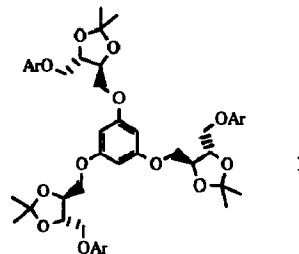
Tetrahedron Letters, 1994, 35, 3547

**SYNTHESIS AND CHARACTERIZATION OF OPTICALLY
ACTIVE, HOMOCHIRAL DENDRIMERS.**

Hak-Fun Chow*, Lai Fan Fok, and Chi Ching Mak

Department of Chemistry, The Chinese University of Hong Kong,
Shatin, NT, HONG KONG

(2*R*, 3*R*)-Tartaric acid is used to construct optically active, homochiral,
monodisperse generation zero dendrimer **1** and generation one dendrimer.

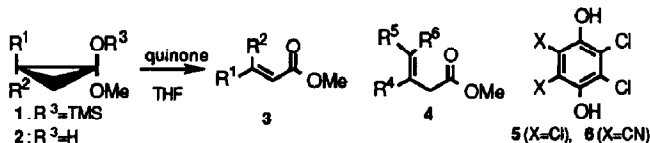


**FORMATION OF UNSATURATED ESTERS IN THE REACTION
OF CYCLOPROPANONE ACETALS WITH QUINONES UNDER
NON-IRRADIATED CONDITIONS.**

Tetrahedron Letters, 1994, 35, 3551

Manabu Abe and Akira Oku*, Department of Chemistry and Materials Technology,
Kyoto Institute of Technology, Matsugasaki, Sakyo-ku, Kyoto 606, Japan.

Unsaturated esters **3** or its mixture with **4** were formed in the non-irradiated SET reaction of **1** or **2** with DDQ or chloranil.

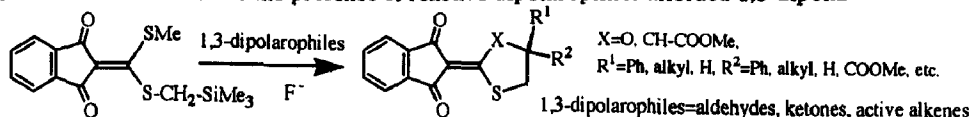


β-SILYLMETHYL-SUBSTITUTED KETENE DITHIOACETALS AS SYNTHETIC EQUIVALENT OF A NOVEL 1,3-DIPOLAR REAGENT, ALKYLIDENETHIOCARBONYL YLIDE; SYNTHESIS AND [3+2] CYCLOADDITION REACTIONS

Tetrahedron Letters, 1994, 35, 3555

Yoshinori Tominaga, Satoshi Takada, and Shinya Kohra, Faculty of Pharmaceutical Sciences, Faculty of Liberal Arts, Nagasaki University, 1-1-4, Bunkyo-machi, Nagasaki, Japan

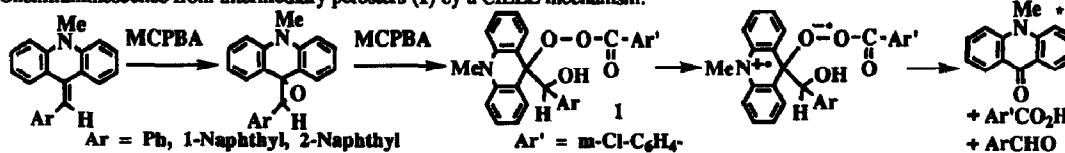
Ketene dithioacetal with fluoride ions in the presence of reactive dipolarophiles afforded 1,3-dipolar cycloadducts.



A Novel Chemiluminescence from the Reaction of 9-Aryl-methylene-10-methyl-9,10-dihydroacridines and Peroxyacid

Tetrahedron Letters, 1994, 35, 3559

Katsumasa Sakanishi,* Mohamad Bambang Nugroho, Yoshiyuki Kato and Natsuki Yamazaki
Department of Chemistry, Suzuka College of Technology, Shiroko, Mie 510-02, Japan
Chemiluminescence from intermediary peresters (I) by a CHEEL mechanism.

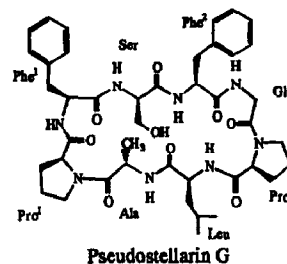


PSEUDOSTELLARIN G, A NEW TYROSINASE INHIBITORY CYCLIC OCTAPEPTIDE FROM PSEUDOSTELLARIA HETEROPHYLLA

Tetrahedron Letters, 1994, 35, 3563

Hiroshi Morita, Hideyuki Kobata, Koichi Takeya and Hideji Itokawa*

Department of Pharmacognosy, Tokyo College of Pharmacy, Horinouchi 1432-1, Hachioji, Tokyo 192-03, Japan



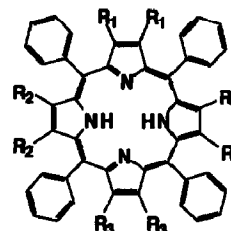
Synthesis and Nonplanar Macrocyclic Characters of Hexa-, Octa-, and Decaphenylporphyrins

Tetrahedron Letters, 1994, 35, 3565

Jun Takeda* and Mitsuo Sato
Biophysics Division, Faculty of Pharmaceutical Sciences, Teikyo University, Sagamiko, Kanagawa 199-01, Japan

Porphyrins bearing six, eight, and ten phenyl groups were synthesized and characterized by UV-visible and NMR spectroscopy.

HPP $R_1 = \text{Ph}, R_2 = R_3 = R_4 = \text{H}$
trans-OPP $R_1 = R_3 = \text{Ph}, R_2 = R_4 = \text{H}$
cis-OPP $R_1 = R_2 = \text{Ph}, R_3 = R_4 = \text{H}$
 DecPP $R_1 = R_2 = R_3 = \text{Ph}, R_4 = \text{H}$



GERI-BP001, A New Inhibitor Of Acyl-CoA: Cholesterol Acyltransferase Produced By *Aspergillus fumigatus* F37

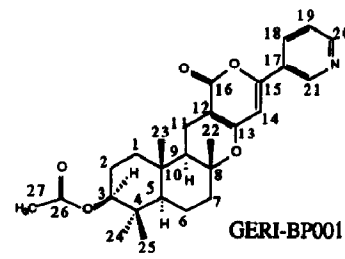
Tetrahedron Letters, 1994, 35, 3569

Tae-Sook Jeong, Sung-Uk Kim, Byoung-Mog Kwon, Kwang-Hee Son, Young-Kook Kim, Myung-Un Choi[†] and Song-Hae Bok^{*}

Bioproducts Research Group, Genetic Engineering Research Institute, KIST, P.O. Box 115, Yoo-sung, Daejeon 305-600, Korea

[†]Department of Chemistry, College of Natural Sciences, Seoul National University, Seoul 151-742, Korea

GERI-BP001, a new inhibitor (IC_{50} 50 μ M) of acyl-CoA: cholesterol acyltransferase (ACAT), was isolated from a culture broth of *Aspergillus fumigatus* F37 and the structure was elucidated on the basis of spectroscopic data.

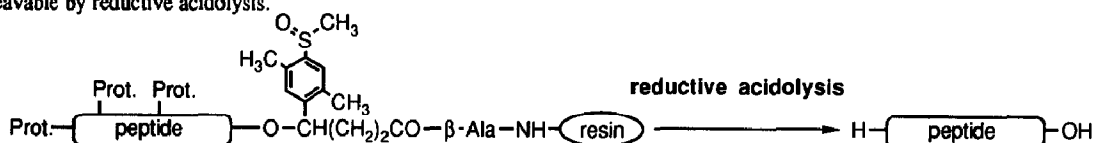


A NEW REDUCTIVE ACIDOLYSIS FINAL DEPROTECTION STRATEGY IN SOLID PHASE PEPTIDE SYNTHESIS. USE OF A NEW SAFETY-CATCH LINKER.

Tetrahedron Letters, 1994, 35, 3571

Yoshiaki Kiso,^{*} Toshio Fukui, Shigeki Tanaka, Tooru Kimura and Kenichi Akaji, Department of Medicinal Chemistry, Kyoto Pharmaceutical University, Yamashina-ku, Kyoto 607, Japan

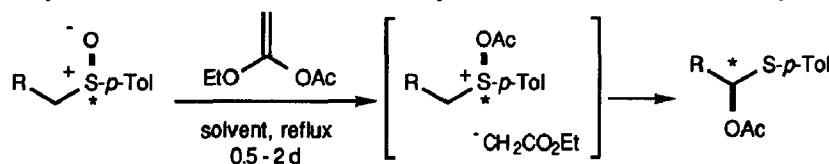
A new reductive acidolysis final deprotection strategy in solid phase peptide synthesis was developed using a new safety-catch linker cleavable by reductive acidolysis.



A NOVEL ASYMMETRIC PUMMERER REACTION INDUCED BY ETHOXY VINYL ESTER

Tetrahedron Letters, 1994, 35, 3575

Yasuyuki Kita,^{*} Norio Shibata, Noriyuki Kawano, Seiji Fukui, and Chino Fujimori, Faculty of Pharmaceutical Sciences, Osaka University, 1-6 Yamada-oka, Suita, Osaka 565, Japan

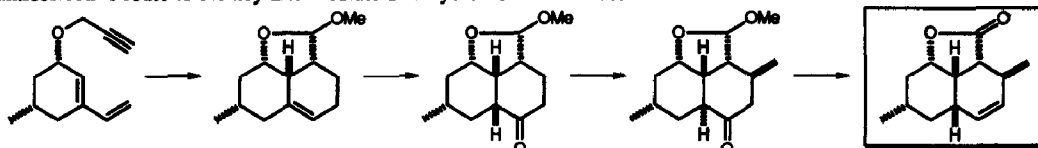


ACCESS TO AN OPTICALLY PURE KEY INTERMEDIATE OF DIHYDROMEVINOLIN.

Tetrahedron Letters, 1994, 35, 3577

Shigeru Nagashima, Teruhiko Taishi, and Ken Kanematsu^{*}, Institute of Synthetic Organic Chemistry, Faculty of Pharmaceutical Sciences, Kyushu University 62, Higashi-ku, Fukuoka 812, Japan

An enantioselective route to the key intermediate of dihydromevinolin is described.

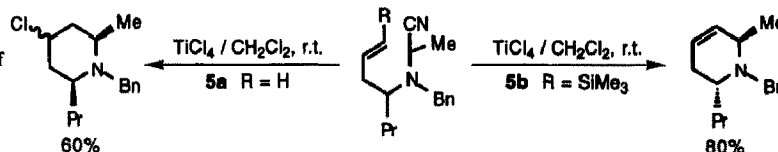


Stereoselective Synthesis of 2,6-Disubstituted Piperidine Alkaloids via $TiCl_4$ Induced Iminium Ion Cyclization of α -Cyanoamines

Tetrahedron Letters, 1994, 35, 3581

Teng-Kuei Yang*, Tsung-Fan Teng, Jyh-Hwa Lin, and Yen-Yuan Lay
Department of Chemistry, National Chung-Hsing University, Taichung, Taiwan 40227, R.O.C.

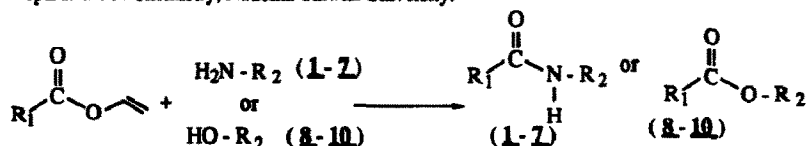
Highly stereoselective cyclization of α -cyanoamine produced either of *cis* and *trans* 2,6-disubstituted piperidine alkaloids through the tuning of vinyl substituents.



Vinyl Carboxylate, An Acylating Reagent for Selective Acylation of Amines and Diols.

Tetrahedron Letters, 1994, 35, 3583

S. T. Chen, S. Y. Chen, S. J. Chen, K. T. Wang, Institute of Biological Chemistry, Academia Sinica, Department of Chemistry, National Taiwan University.

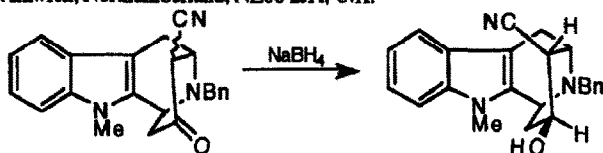


1-7 = Val-OBzl, Ser-OBzl, Phe-^tBu, Phe-OH, Pro-NH₂, Pro-OH, Sarcosine,
8-10 = 2-phenyl-2-ethanediol, 1,3-butandiol, L-ascorbic acid.

STEREOSPECIFIC REDUCTION OF A β -KETO-NITRILE: FORMATION OF A SINGLE INDOLIC β -HYDROXY-NITRILE

Tetrahedron Letters, 1994, 35, 3585

FROM A MIXTURE OF TAUTOMERS AND DIASTEREISOMERS. Patrick D. Bailey, Department of Chemistry, Heriot-Watt University, Riccarton, Edinburgh, EH14 4AS, U.K. Sean P. Hollinshead, Madeleine H. Moore, Keith M. Morgan, and John M. Vernon, Department of Chemistry, University of York, Heslington, York, YO1 5DD, U.K. David I. Smith, Department of Chemical Development, Sterling Winthrop Pharmaceuticals Research Division, Sterling Winthrop Research Centre, Alnwick, Northumberland, NE66 2JH, U.K.

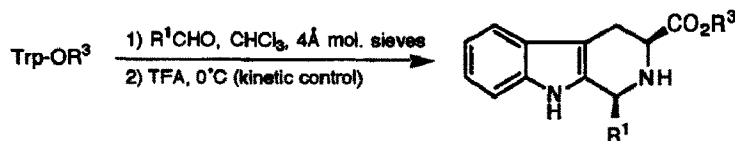


Borohydride reduction of a tautomeric mixture leads exclusively to one alcohol

ENHANCING THE YIELD AND DIASTERESELECTIVITY OF THE PICTET-SPENGLER REACTION: A HIGHLY EFFICIENT ROUTE TO *CIS*-1,3-DISUBSTITUTED TETRAHYDRO- β -CARBOLINES.

Tetrahedron Letters, 1994, 35, 3587

Patrick D. Bailey, Department of Chemistry, Heriot-Watt University, Riccarton, Edinburgh, EH14 4AS, U.K. Madeleine H. Moore, Keith M. Morgan, and John M. Vernon, Department of Chemistry, University of York, Heslington, York, YO1 5DD, U.K. David I. Smith, Department of Chemical Development, Sterling Winthrop Pharmaceuticals Research Division, Sterling Winthrop Research Centre, Alnwick, Northumberland, NE66 2JH, U.K.



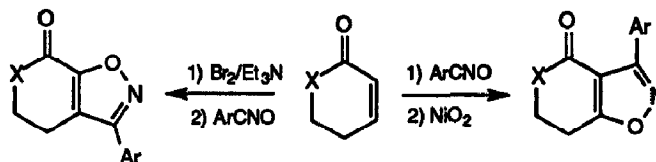
Yields >95% and choice of R³ enables *cis*-diastereocontrol to be $\geq 3.5 : 1$

REVERSAL OF REGIOCHEMISTRY IN THE SYNTHESIS OF ISOXAZOLES

BY NITRILE OXIDE CYCLOADDITIONS. Christopher J. Easton, C. Merrick

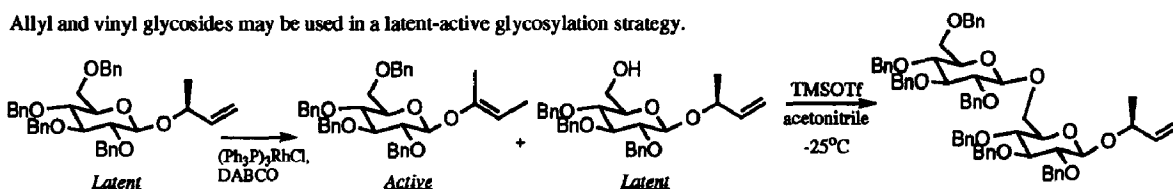
Hughes and Edward R. T. Tiekink, Department of Chemistry, University of Adelaide, Adelaide, S.A. 5005, Australia
Carolyn E. Lubin, G. Paul Savage and Gregory W. Simpson,* CSIRO Division of Chemicals and Polymers, Private Bag 10, Rosebank MDC, Clayton, Vic. 3169, Australia

Isoxazolines, obtained from nitrile oxide cycloadditions to cyclohex-2-enones, reacted with nickel peroxide to give isoxazoles. In contrast, bromination followed by cycloaddition affords the regioisomeric isoxazoles.

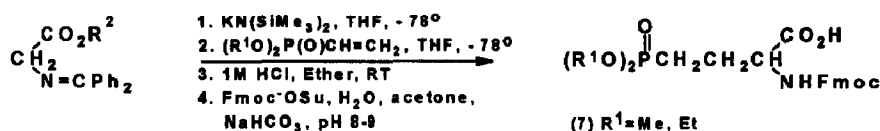
**VINYL GLYCOSIDES IN OLIGOSACCHARIDE SYNTHESIS (PART 1): A NEW LATENT-ACTIVE GLYCOSYLATION STRATEGY.**

Geert-Jan Boons*, Stephen Isles, School of Chemistry, The University of Birmingham, Edgbaston, Birmingham B15 2TT, UK.

Allyl and vinyl glycosides may be used in a latent-active glycosylation strategy.

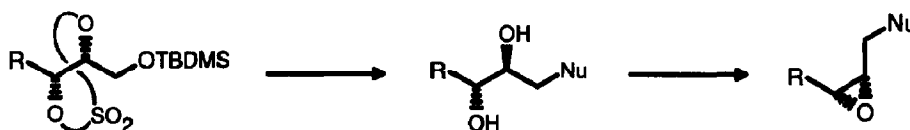
**A CONVENIENT SYNTHESIS OF PHOSPHONATE ISOSTERES OF****SERINE PHOSPHATES.** Robert Hamilton,^a Richard E. Shute,^c James Travers,^aBrian Walker,^b and Brian J. Walker,*^a (a) School of Chemistry and (b) Division of Biochemistry, The Queen's University, Belfast BT9 5AG, and (c) ZENECA Pharmaceuticals, Mereside, Alderley Park, Macclesfield, Cheshire SK10 4TG

Serine phosphonate isosteres 4-(dialkylphosphono)-2-(*N*-(9-fluorenylmethoxycarbonyl)amino)butanoic acids (7), suitably protected for direct use in peptide synthesis, have been prepared from vinylphosphonate diesters in three steps and high overall yield.

**CIS-EPOXIDES VIA SHARPLESS' ASYMMETRIC DIHYDROXYLATION****REACTION: SYNTHESIS OF (+)-DISPARLURE**

Soo Y. Ko, Sandoz Institute for Medical Research, 5 Gower Place, London WC1E 6BN, U. K.

(+)-Disparlure was synthesized employing the AD and cyclic sulfate rearrangement-opening reactions as the key steps.



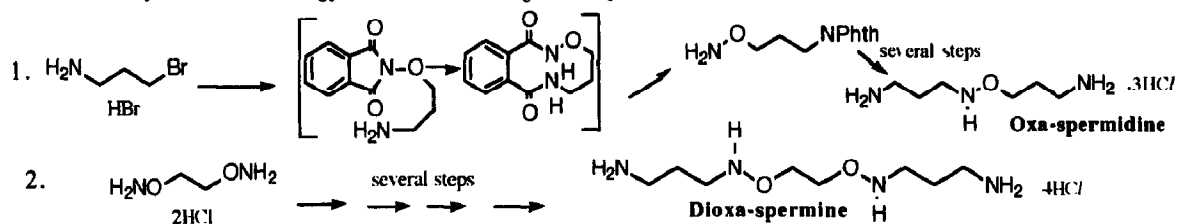
Synthesis of Novel Oxa-isosteres of Spermidine and Spermine

Tetrahedron Letters, 1994, 35, 3605

Paul Kong Thoo Lin*, Nuala M. Maguire and Daniel M. Brown[†]

The Robert Gordon University, School of Applied Sciences, St. Andrew st., Aberdeen AB1 1HG, UK

[†]MRC Laboratory of Molecular Biology, Hills Road, Cambridge CB2 2QH, UK

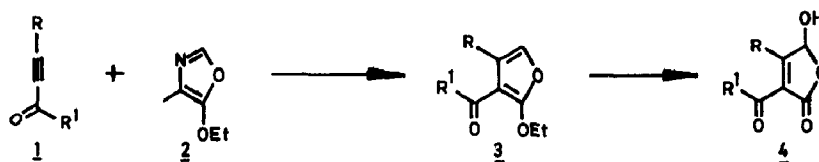


REGIOSELECTIVE SYNTHESIS OF HYDROXY BUTENO-LIDES : A CONVENIENT SYNTHESIS OF A-FACTOR

Tetrahedron Letters, 1994, 35, 3609

Yadav J S*, Muralikrishna Valluri and A V Rama Rao

Indian Institute of Chemical Technology, Hyderabad 500 007, India



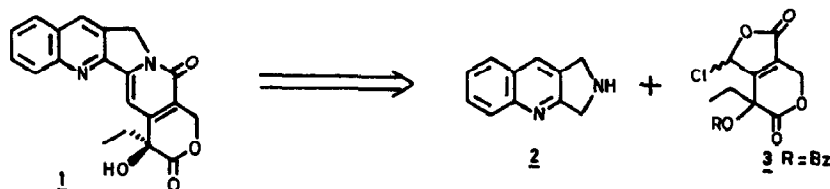
REGIOSELECTIVE SYNTHESIS OF CAMPTOTHECIN

Tetrahedron Letters, 1994, 35, 3613

A V Rama Rao*, Yadav J S and Muralikrishna Valluri

Indian Institute of Chemical Technology, Hyderabad 500 007

India

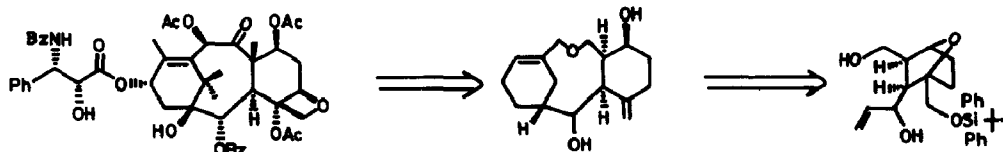


FIRST AND STEREOCONTROLLED ENTRY TO C-7 HYDROXY FUNCTIONALITY OF TAXANES EMPLOYING BOORD REACTION

Tetrahedron Letters, 1994, 35, 3617

Yadav J S*, Ravishankar Renduchintala and Lakshman Samala

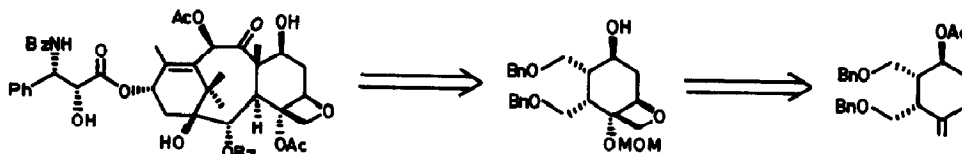
Indian Institute of Chemical Technology, Hyderabad 500007, India



A FACILE STEREOCONTROLLED SYNTHESIS OF TAXOL CD RINGS

Tetrahedron Letters, 1994, 35, 3621

Yadav J S*, Ravishankar Renduchintala and Lakshman Samala
Indian Institute of Chemical Technology, Hyderabad 500007, India



AN EXPEDITIOUS APPROACH TO THE SYNTHESIS OF CHIRAL BUTADIENYL ALCOHOLS

Tetrahedron Letters, 1994, 35, 3625

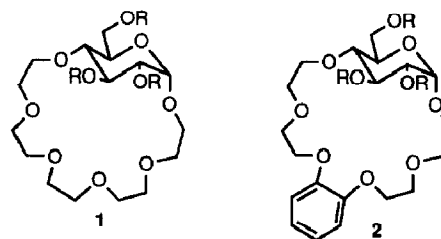
Yadav J S*, Srinivas D and Shekharam I
Indian Institute of Chemical Technology, Hyderabad 500007, India



Synthesis of Novel Chiral Macrocycles: Crown Ethers Derived from D-Glucose

Neelakantha S. Mani*,¹ and Puthuparambil P. Kanakamma
Regional Research Laboratory (CSIR), Trivandrum 695019, India.

Two new macrocycles (1 and 2) incorporating a crown ether and a glucose unit have been synthesized efficiently in six steps from α -allyl glucopyranoside. Preliminary complexation studies with alkali metal and ammonium ions are described.

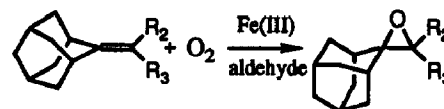


Tetrahedron Letters, 1994, 35, 3629

Aerobic Epoxidation of Hindered Olefins and Enol Ethers Catalyzed by a Polymerizable β -Ketoesterate Complex of Iron(III).

Tetrahedron Letters, 1994, 35, 3633

Luigi Lopez, Piero Mastroiilli, Giuseppe Mele, and Cosimo F. Nobile*
Centro CNR M.I.S.O., Istituto di Chimica del Politecnico di Bari and
Dipartimento di Chimica dell'Università di Bari, Trav. 200 Re David, 4 70126 Bari Italy



¹O₂ and free peroxyacids seem to be discharged as active species in the epoxidation under Mukaiyama's conditions.