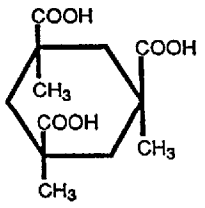
Tetrahedron Lett.30,6943(1989)

ION-INDUCED CONFORMATIONAL CHANGES IN KEMP'S TRIACID

F. M. Menger*, Paige A. Chicklo, and Michael J. Sherrod
Dept. Chemistry, Emory University, Atlanta, Ga. 30322 USA

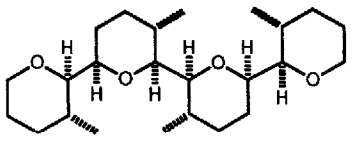
NMR and MACROMODEL/molecular dynamics calculations show that Mg^{++} converts Kemp's triacid (trianionic form in water) from a chair into a half-chair. Only two of the three carboxylates are then involved in actual metal association.



Tetrahedron Lett.30,6947(1989)

ENANTIOSELECTIVE COMPLEXATION WITH A CONFORMATIONALLY HOMOGENEOUS C_2 PODAND IONOPHORE.

T. Iimori, S.D. Erickson, A.L. Rheingold and W.C. Still
Department of Chemistry, Columbia University, New York, NY 10027
Department of Chemistry, University of Delaware, Newark, DE 19716



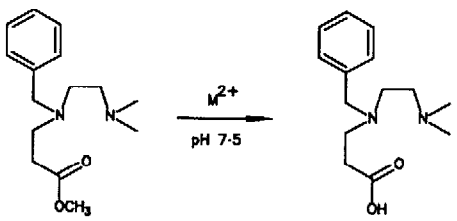
The methylated podand shown is expected to exist in a single populated conformation which is preorganized for cation binding. It was prepared from (+) diethyl tartrate and selectively binds cationic guests including chiral ammonium salts.

Tetrahedron Lett.30,6951(1989)

Cu(II) CATALYZED HYDROLYSIS OF AN UNACTIVATED ESTER BASED ON REVERSIBLE CONJUGATE ADDITION

Brook F. Duerr and Anthony W. Czarnik*
Department of Chemistry, The Ohio State University, Columbus, Ohio 43210

Cu(II) provides a 16,000-fold acceleration in the hydrolysis of methyl acrylate when a removable ligand is used to increase the stability of the required copper chelate. Metal ion catalysis, not promotion, is observed.

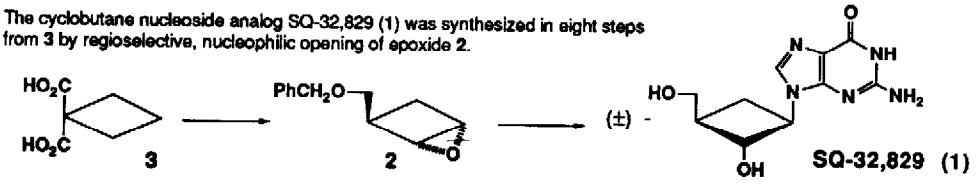


Tetrahedron Lett.30,6955(1989)

SYNTHESIS OF SQ-32,829, A NEW NUCLEOSIDE ANTIVIRAL AGENT

G. A. Jacobs, J. A. Tino and R. Zahler*
The Squibb Institute for Medical Research, P. O. Box 4000, Princeton, New Jersey 08543

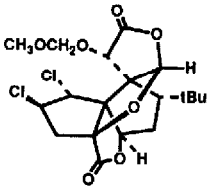
The cyclobutane nucleoside analog SQ-32,829 (1) was synthesized in eight steps from 3 by regioselective, nucleophilic opening of epoxide 2.



Tetrahedron Lett.30,6959(1989)

SIMPLE ANALOGS OF GINKGOLIDE B WHICH ARE HIGHLY ACTIVE ANTAGONISTS OF PLATELET ACTIVATING FACTOR

E. J. Corey and Ashvinikumar V. Gavai
Department of Chemistry, Harvard University
Cambridge, Massachusetts, 02138



7 IC_{50} 0.2 μM

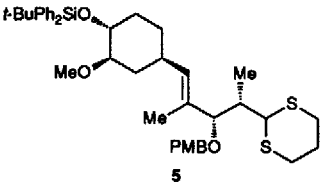
Tetrahedron Lett.30,6963(1989)

FK-506 Synthetic Studies. 3. An Efficient Asymmetric Synthesis of the C(24)-C(34) Fragment of FK-506, FR-900520, and FR-900523.

Amos B. Smith III,* Karl J. Hale, Leif M. Laakso, Kwunmin Chen, and Antoni Riéra.

Department of Chemistry, the Laboratory for Research on the Structure of Matter, and the Monell Chemical Senses Center, University of Pennsylvania, Philadelphia, PA 19104, U.S.A.

An efficient asymmetric synthesis of the C(24)-C(34) fragment of the FK-506 family of immunosuppressants has been achieved.



5

Tetrahedron Lett.30,6967(1989)

SYNTHESIS OF IODOCUBANES BY DECARBOXYLATIVE IODINATION

John Tsanaktsidis and Philip E. Eaton*
Department of Chemistry, The University of Chicago,
5735 S. Ellis Avenue, Chicago Illinois 60637.

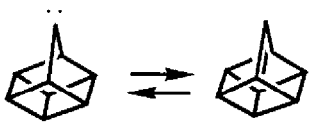
Summary: An efficient method is described for the preparation of iodocubanes from the corresponding carboxylic acids utilizing thiohydroxamic ester methodology with 2,2,2-trifluoroiodoethane as the iodide source.

Tetrahedron Lett.30,6969(1989)

AN EQUILIBRATING CARBENE-BRIDGEHEAD ALKENE PAIR

Ning Chen and Maitland Jones, Jr.
Department of Chemistry, Princeton University, Princeton, New Jersey 08544 USA

Homocuban-9-ylidene (**2**) and homocub-1(9)-ene (**3**) are in equilibrium.

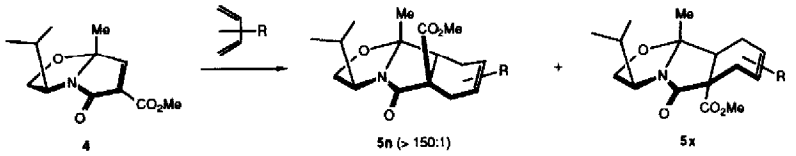


2 **3**

Tetrahedron Lett.30,6973(1989)

ASYMMETRIC DIELS-ALDER REACTIONS ON CHIRAL α,β-UNSATURATED LACTAMS

A. I. Meyers* and Carl A. Busacca

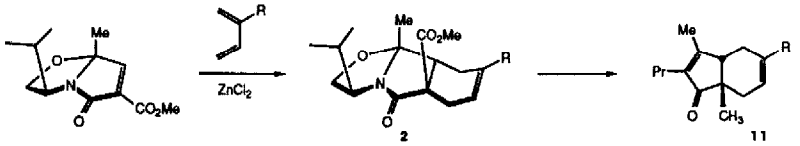


Cycloaddition to **4** gives **5n** as the sole product with high regiochemistry.

Tetrahedron Lett.30,6977(1989)

AN ASYMMETRIC ROUTE TO FUSED CARBOCYCLIC SYSTEMS *VIA* DIELS-ALDER REACTIONS ON CHIRAL α,β-UNSATURATED BICYCLIC LACTAMS

A. I. Meyers* and Carl A. Busacca



The cycloadduct **2** is transformed in several steps to the optically pure carbocycle, **11**.

Tetrahedron Lett.30,6981(1989)

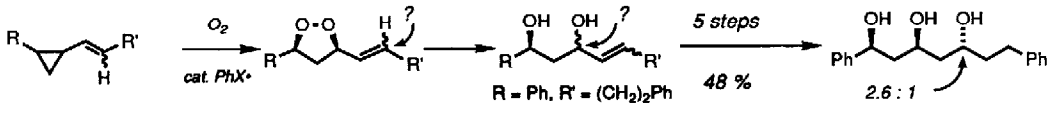
AN EFFICIENT SYNTHESIS OF ALKENYL AND ALKYNYL SILYL ETHERS.

Gilbert Stork* and Paul F. Keitz
Department of Chemistry, Columbia University, New York, New York 10027

Tetrahedron Lett.30,6985(1989)

STEREOCHEMICAL STUDIES ON THE PREPARATION AND SUBSEQUENT REDUCTIVE CLEAVAGE OF 1,2-DIOXOLANES. APPLICATION TO THE SYNTHESIS OF (±)-YASHABUSHITRIOL.

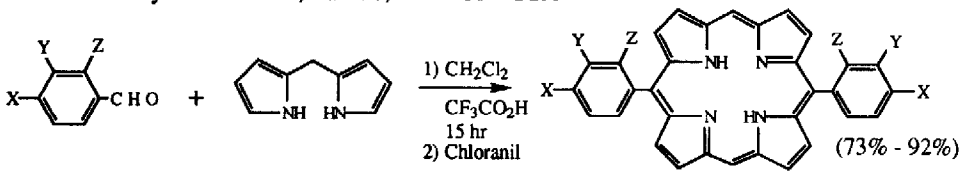
Ken S. Feldman* and Robert E. Simpson
Department of Chemistry, The Pennsylvania State University, University Park, PA 16802



Tetrahedron Lett. 30, 6989 (1989)

HIGH YIELD SYNTHESIS OF 5,15-DIARYLPORPHYRINS

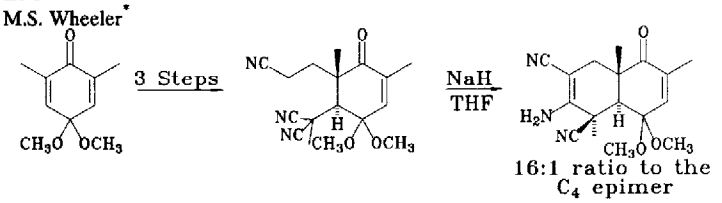
J. S. Manka and D. S. Lawrence, Department of Chemistry
State University of New York, Buffalo, NY 14214 USA



Tetrahedron Lett. 30, 6993 (1989)

A NOVEL STEREOSELECTIVE SYNTHESIS OF THE RING AB PODOCARPATE SYSTEM

Ling Lu, Richard K. Shoemaker and Desmond M.S. Wheeler*
Department of Chemistry
University of Nebraska-Lincoln
Lincoln, Nebraska 68588-0304, U.S.A.



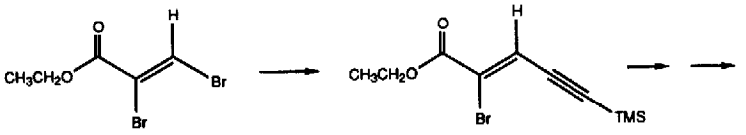
16:1 ratio to the C_4 epimer

Tetrahedron Lett. 30, 6997 (1989)

VERSATILE PRECURSORS FOR THE SYNTHESIS OF ENYNES AND ENEDIYNES

A. G. Myers,* M. M. Alauddin, M. M. Fuhry, P. S. Dragovich, N. S. Finney and P. M. Harrington

Department of Chemistry, California Institute of Technology, Pasadena, CA 91125

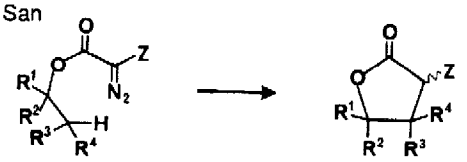


Tetrahedron Lett. 30, 7001 (1989)

HIGHLY SELECTIVE γ-LACTONE SYNTHESES BY INTRAMOLECULAR CARBENOID CARBON-HYDROGEN INSERTION IN RHODIUM(II) CARBOXYLATE AND RHODIUM(II) CARBOXAMIDE CATALYZED REACTIONS OF DIAZO ESTERS.

Michael P. Doyle, Vahid Bagheri, Matthew M. Pearson, and John D. Edwards, Department of Chemistry, Trinity University, San Antonio, Texas 78212

Rhodium(II) acetate and rhodium(II) acetamide catalyzed decomposition of diazo esters forms γ-lactones in high yield and with exceptionally high regio- and diastereoselectivity.

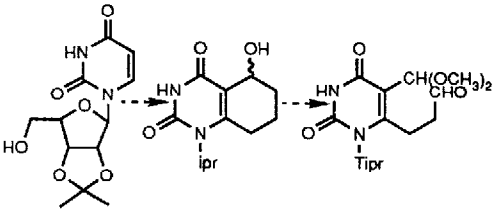


Tetrahedron Lett. 30, 7005 (1989)

A NOVEL CYCLIZATION REACTION OF A C-6 SUBSTITUTED URIDINE ANALOG: AN ENTRY TO 5,6-DIALKYLATED URIDINE DERIVATIVES

Binghe Wang, John R. Kagel, T. S. Rao, (Late) *Mathias P. Mertes*
Department of Medicinal Chemistry, University of Kansas, Lawrence, Kansas, 66045 U.S.A.

5,6-Dialkylated uridine derivatives were conveniently synthesized in 5 steps starting from isopropylideneuridine in a 43% overall yield. The key reaction is a novel acid catalyzed cyclization reaction of 6-(4-butanal)-isopropylideneuridine.

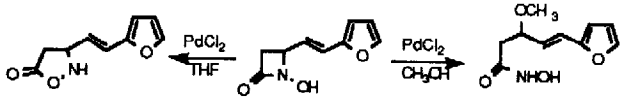


Tetrahedron Lett. 30, 7009 (1989)

NOVEL PALLADIUM (II) MEDIATED REACTIONS OF N-HYDROXY-β-LACTAMS

Charles K. Zercher and Marvin J. Miller*,
Department of Chemistry and Biochemistry
University of Notre Dame, Notre Dame, IN 46556

Treatment of an N-hydroxy-β-lactam with palladium (II) resulted in the unprecedented attack at the C-4 position, as well as formation of an isoxazolidinone, which suggests palladium (II) acted as a Lewis acid.

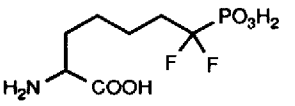


Tetrahedron Lett. 30, 7013 (1989)

SYNTHESIS AND NMDA RECEPTOR BINDING OF 2-AMINO-7,7-DIFLUORO-7-PHOSPHONOHEPTANOIC ACID

Christopher F. Bigge, James T. Drummond and Graham Johnson*
Parke-Davis Pharmaceutical Research Division
Warner-Lambert Company, Ann Arbor, Michigan 48105

The title compound **1** was synthesized to determine whether complete diionization of the phosphonate group is a prerequisite for high affinity binding at the NMDA receptor.

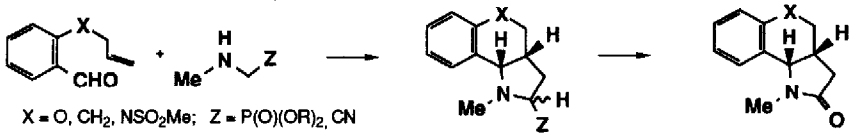


1

Tetrahedron Lett. 30, 7017 (1989)

SYNTHESIS OF POLYCYCLIC LACTAMS VIA INTRAMOLECULAR DIPOLAR CYCLOADDITIONS OF STABILIZED AZOMETHINE YLIDES

Stephen F. Martin* and Tom H. Cheavens
Department of Chemistry, The University of Texas, Austin, TX 78712



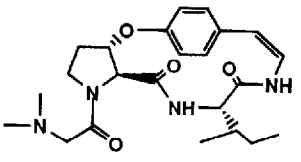
Reaction of methylaminomethylphosphonates or methylaminoacetonitrile with α,ω-olefinic aldehydes gave [3+2] cycloaddition products which could be oxidized to lactams.

Tetrahedron Lett.30,7021(1989)

STUDIES DIRECTED TOWARD THE TOTAL SYNTHESIS OF 14-MEMBERED CYCLOPEPTIDE ALKALOIDS: SYNTHESIS OF A CYCLIC PRECURSOR TO NUMMULARINE-F

Robert J. Heffner and Madeleine M. Joullié*
Department of Chemistry, University of Pennsylvania
Philadelphia, PA 19104-6323

A highly strained 14-membered para-ansa cyclopeptide, a potential precursor of the cyclopeptide alkaloid, nummularine-F, was made by cyclization of a pentafluorophenyl ester under catalytic hydrogenation conditions. This cyclization and the stereoselective synthesis of the acyclic activated ester from D-serine, are presented.



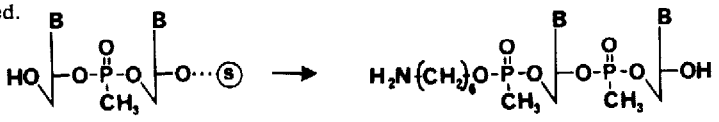
Nummularine-F

Tetrahedron Lett.30,7025(1989)

PREPARATION OF FUNCTIONALIZED OLIGONUCLEOSIDE METHYLPHOSPHONATE SUITABLE FOR NON-RADIOACTIVE LABEL ATTACHMENT

Sudhir Agrawal
Worcester Foundation for Experimental Biology, Maple Avenue, Shrewsbury, MA 01545

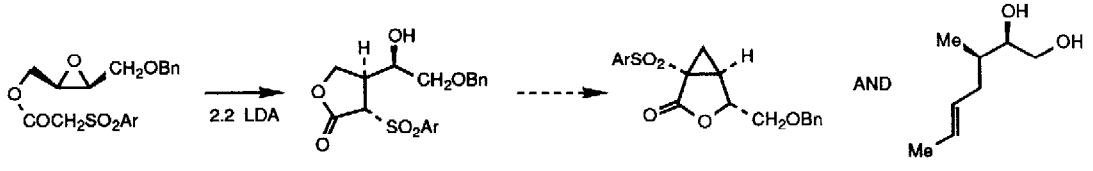
The functionalization of oligonucleoside methylphosphonate to attach non-readioactive labels such as biotin and fluorophores is described.



Tetrahedron Lett.30,7029(1989)

Cyclofunctionalisation of Epoxyalcohol Derivatives. 4. Cyclisation of Sulfonylester Dianions. A Synthesis of MeBMT.

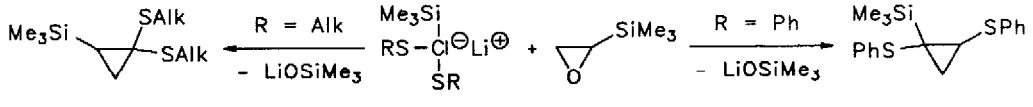
S.W.McCombie, B.B.Shankar and A.K.Ganguly, Schering-Plough Research, Bloomfield, N.J.



Tetrahedron Lett.30,7033(1989)

CYCLOPROPANES FROM SILYL/SULFUR-STABILIZED CARBANIONS AND OXIRANES - THE INTERPLAY OF TWO REACTION PATHWAYS

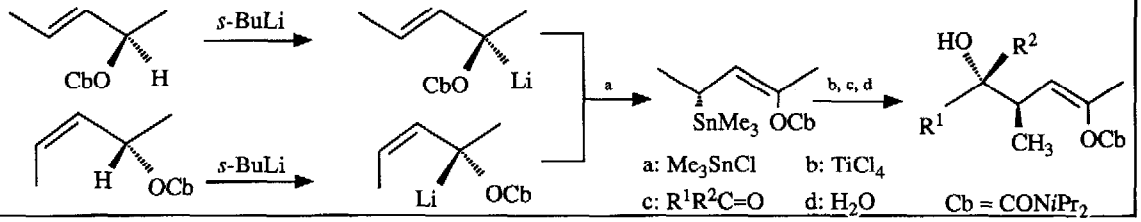
Ernst Schaumann* and Carsten Friese
Institut für Organische Chemie der Universität Hamburg,
Martin-Luther-King-Platz 6, D-2000 Hamburg 13, Fed. Rep. Germany



ENANTIOMERICALLY ENRICHED ALLYLSTANNANES FROM CHIRAL ALLYLLITHIUM DERIVATIVES AND THEIR HIGHLY REGIO-, DIASTEREO- AND ENANTIOSELECTIVE HYDROXYALKYLATION

Tetrahedron Lett. 30, 7037 (1989)

Thomas Krämer, Jan-Robert Schwark, Dieter Hoppe*, Institut für Organische Chemie , Universität Kiel, Olshausenstr. 40, D-2300 Kiel, FRG.

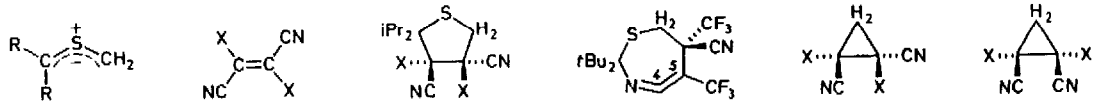


CYCLOADDITIONS OF DIALKYL THIOKETONE-*S*-METHYLIDES

Tetrahedron Lett. 30, 7041 (1989)

Rolf Huisgen* and Grzegorz Mloston
Institut für Organische Chemie der Universität München, FRG

Thione-*S*-methylide 1, R = iPr, furnishes thiolanes 3 with alkenes 2, probably by a concerted pathway. In contrast, 1, R = tBu, combines with 2, X = CF_3, via zwitterionic intermediates affording the 7-membered ketene imine 4 and cyclopropane 5 + $R_2C{=}S$; reaction with 2, X = CO_2CH_3, gives rise to 5 and 6.

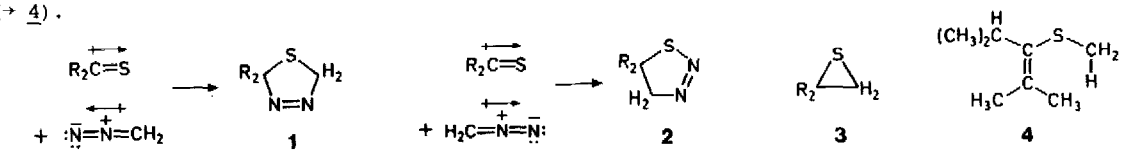


OPEN-CHAIN ALIPHATIC THIONES AND DIAZOMETHANE; REACTIONS OF 1,3,4-THIADIAZOLINES AND THIOCARBONYL YLIDES

Tetrahedron Lett. 30, 7045 (1989)

Grzegorz Mloston and Rolf Huisgen *
Institut für Organische Chemie der Universität München, FRG

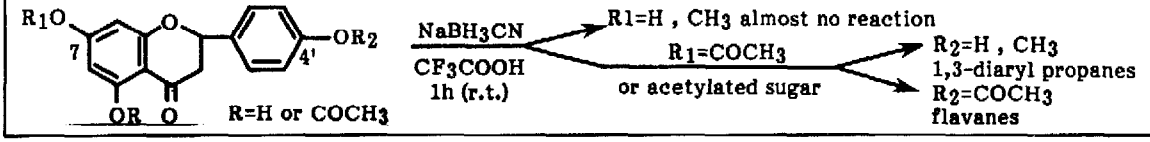
Diazomethane adds in both directions to $R_2C{=}S$, R = Et, Pr, iPr, tBu; the dependence of the ratio on R and on solvent polarity discloses the nature of the orienting forces. The thione S-methylides generated from 1 undergo electrocyclization (R = iPr, tBu, → 3) or 1,4-H shift (→ 4).



REDUCTION DE FLAVANONES PAR LE CYANOBOROHYDRURE DE SODIUM DANS L'ACIDE TRIFLUOROACETIQUE - I/

Tetrahedron Lett. 30, 7049 (1989)

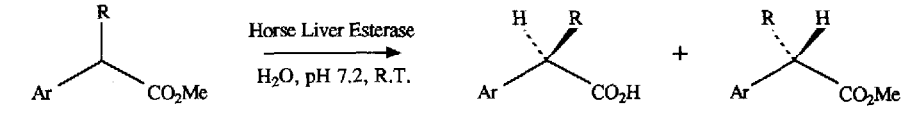
Guy LEWIN (1,2), Maryse BERT (1), Jean-Claude DAUGUET (1),
Corinne SCHAEFFER (3), Jean-Luc GUINAMANT (3) et Jean-Paul VOLLAND (3)
(1) Laboratoire de Pharmacognosie, Faculté de Pharmacie, 1 rue Vaubénard, 14032 CAEN FRANCE
(2) Laboratoire de Chimie des Substances Thérapeutiques Naturelles, Centre d'Etudes Pharmaceutiques, 92296 CHATENAY-MALABRY FRANCE
(3) Institut de Recherches SERVIER, 11 rue des Moulineaux, 92150 SURESNES FRANCE



ENZYMATIC RESOLUTION OF METHYL 2-ALKYL-2-ARYLACETATES

Tetrahedron Lett. 30, 7053 (1989)

M. Ahmar, C. Girard and R. Bloch*
Laboratoire des Carbocycles (Associé au C.N.R.S.), Institut de Chimie Moléculaire d'Orsay, Bât. 420
Université de Paris-Sud, 91405 ORSAY (France)



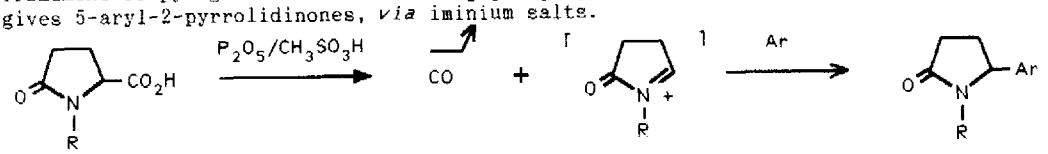
R = Me , Et , iPr

DECARBOXYLATION OF PYROGLUTAMIC ACIDS WITH P_2O_5/CH_3SO_3H : A GENERAL SYNTHESIS OF 5-ARYL-2-PYRROLIDINONES

Tetrahedron Lett. 30, 7057 (1989)

B. Rigo, D. Fasseur, N. Cherepy and D. Couturier
HEI, 13 rue de Toul, 59046 LILLE, FRANCE; USTL, 59655 Villeneuve d'Ascq, FRANCE

Treatment of pyroglutamic acids with P_2O_5/CH_3SO_3H and aromatic compounds gives 5-aryl-2-pyrrolidinones, *via* iminium salts.

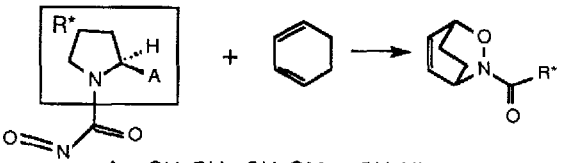


ASYMETRIC DIELS-ALDER CYCLOADDITIONS WITH ACYLNITROSO DIENOPHILES OBTAINED FROM L-PROLINE

Tetrahedron Lett. 30, 7061 (1989)

Agnès Brouillard-Poichet, Albert Defoin and Jacques Streith*
Ecole Nationale Supérieure de Chimie
Université de Haute Alsace
F-68093 Mulhouse cedex France

When acylnitroso derivatives of L-proline were reacted with cyclohexadiene the primary Diels-Alder cycloadducts were obtained with d.e. values ranging from 52 to 68 %.



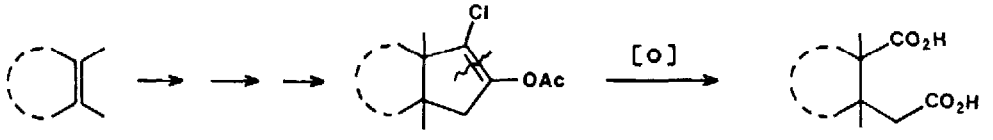
A = CH_2OH ; CH_2OMe ; CH_2NHPh ; CO_2Me

SYNTHÈSE SELECTIVE D'ACIDES GLUTARIQUES A PARTIR D'OLEFINES

Tetrahedron Lett. 30, 7065 (1989)

Jean-Pierre Deprés et Andrew E. Greene
Université Joseph Fourier, LEDSS III, Bât. 301 - Chimie Recherche - BP53X, 38041 Grenoble Cedex, FRANCE

Six representative glutaric acids have been regio- and stereoselectively prepared from the corresponding olefins in ca. 50 % overall yield. α,α-Dichlorocyclopentanones, readily available from the olefins by three-carbon annelation, are transformed via chloro enol acetates to the glutaric acids.

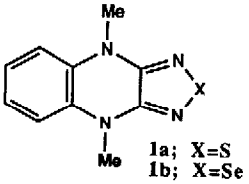


Tetrahedron Lett. 30, 7071 (1989)

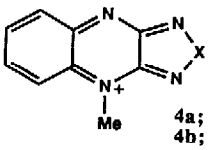
N-METHYL DERIVATIVES OF [1,2,5]THIADIAZOLO-[3,4-b]QUINOXALINE AND THE SELENIUM ANALOGS

Yoshiro Yamashita,*† Kenichi Saito, Toshio Mukai and Tsutomu Miyashi
Department of Chemistry, Faculty of Science, Tohoku University,
Aramaki, Sendai 980, Japan
†Institute for Molecular Science,
Myodaiji, Okazaki 444, Japan

Novel electron donors **1a,b** and heterocyclic cations **4a,b** with high electron affinities were prepared.



1a; X=S
1b; X=Se

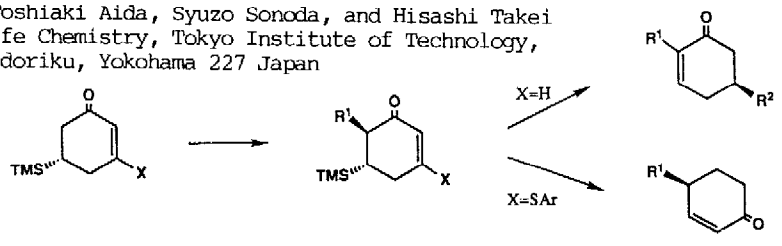


4a; X=S
4b; X=Se

Tetrahedron Lett. 30, 7075 (1989)

ENANTIOSELECTIVE ROUTES TO 2,5-DISUBSTITUTED- AND 4-SUBSTITUTED-2-CYCLOHEXENONES

Morio Asaoka,* Toshiaki Aida, Syuzo Sonoda, and Hisashi Takei
Department of Life Chemistry, Tokyo Institute of Technology,
Nagatsutacho, Midoriku, Yokohama 227 Japan

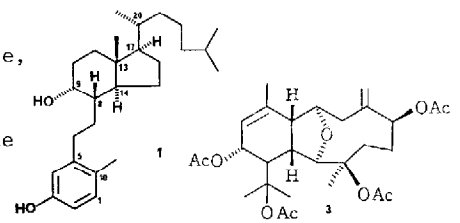


Tetrahedron Lett. 30, 7079 (1989)

ASTROGORGIASIOL AND ASTROGORGIN, INHIBITORS OF CELL DIVISION IN FERTILIZED STARFISH EGGS, FROM A GORGONIAN ASTROGORGIA SP.

N.Fusetani*, H.Nagata, H.Hirota+ and T.Tsuyuki+
Laboratory of Marine Biochemistry, Faculty of Agriculture,
and +Department of Chemistry, Faculty of Science,
The University of Tokyo, Bunkyo-ku, Tokyo (Japan).

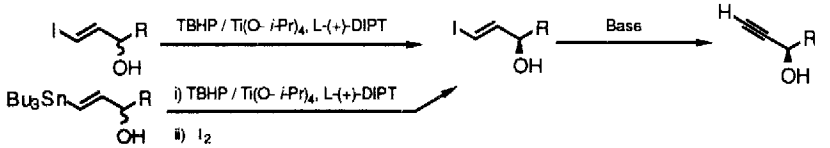
A novel secosterol, astrogorgiadiol(**1**), a known diterpene ophirin and closely related diterpene, astrogorgin(**3**), have been isolated from the gorgonian Astrogorgia sp. as inhibitors of cell division in fertilized starfish eggs.



Tetrahedron Lett. 30, 7083 (1989)

PRACTICAL METHOD FOR SYNTHESIS OF OPTICALLY PURE PROPARGYLIC ALCOHOLS

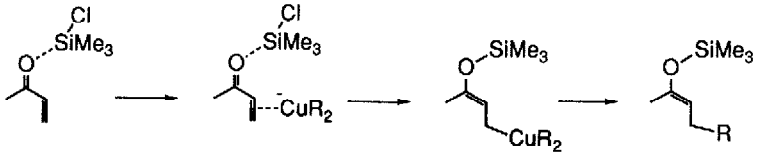
Takayori Ito, Sentaro Okamoto, and Fumie Sato*
Department of Biomolecular Engineering, Tokyo Institute of Technology, Meguro, Tokyo 152, Japan



Tetrahedron Lett.30,7087(1989)

DOES Me_3SiCl ACTIVATE CONJUGATE ADDITION OF COPPER REAGENTS AS A LEWIS ACID ?

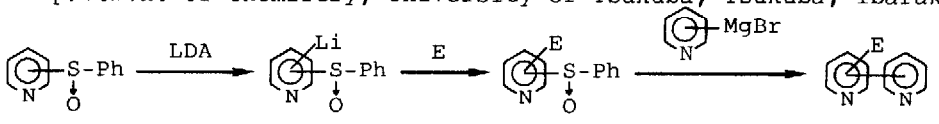
Yoshiaki Horiguchi, Makoto Komatsu, and Isao Kuwajima*
Department of Chemistry, Tokyo Institute of Technology, Meguro, Tokyo 152, Japan



Tetrahedron Lett.30,7091(1989)

PREPARATION OF BIPYRIDYL DERIVATIVES VIA α-LITHIATION OF PYRIDYL PHENYL SULFOXIDES, SUBSTITUTION WITH ELECTROPHILES AND CROSS-COUPLING REACTIONS WITH GRIGNARD REAGENTS.

Naomichi Furukawa,* Tadao Shibutani, and Hisashi, Fujihara
Department of Chemistry, University of Tsukuba, Tsukuba, Ibaraki 305, Japan

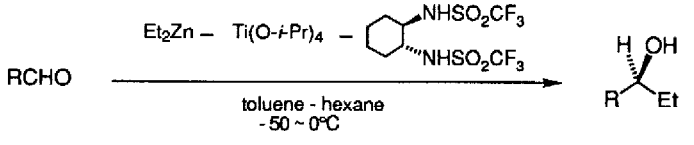


E: Me_3SiCl
PhCHO
PhCOMe

Tetrahedron Lett.30,7095(1989)

Catalytic Enantioselective Alkylation of Aldehyde by Disulfonamide-Ti(O-*i*-Pr)$_4$-Dialkyl Zinc System

Hideyo Takahashi, Takashi Kawakita, Masato Yoshioka, Susumu Kobayashi, and Masaji Ohno
Faculty of Pharmaceutical Sciences, University of Tokyo, Hongo, Bunkyo-ku, Tokyo 113



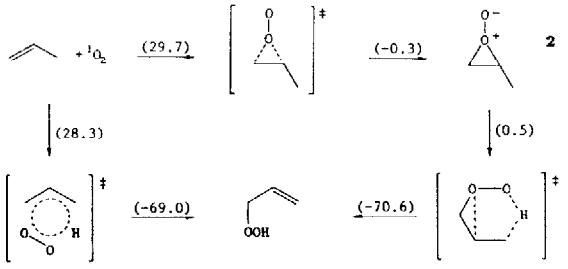
R = PhCH=CH 99%e.e.
R = $PhCH_2CH_2$ 92%e.e.
R = $CH_3(CH_2)_4$ 99%e.e.

Tetrahedron Lett.30,7099(1989)

FORMATION OF HYDROPEROXIDE FROM SINGLET OXYGEN AND PROPENE: A DUALITY OF MECHANISMS BY PM3

Alwyn G. Davies and Carl H. Schiesser*
Department of Chemistry, University College London,
20 Gordon Street, London, U.K., WC1H 0AJ.

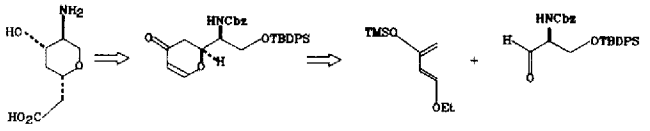
The 6-membered ring transition state (1) is 1.4 kcal mol^{-1} more stable than that leading to the perepoxide intermediate (2).



Tetrahedron Lett.30,7103(1989)

TOTAL SYNTHESIS OF (+)-GALANTINIC ACID

Adam Golebiowski, Janusz Kozak, and Janusz Jurczak*
Institute of Organic Chemistry, Polish Academy of Sciences, 01-224 Warszawa, Poland



(+)-GALANTINIC ACID

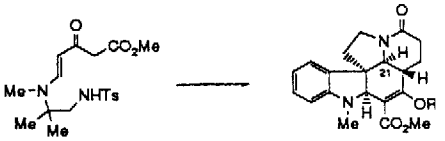
Tetrahedron Lett.30,7105(1989)

A SHORT SYNTHESIS OF THE 21-EPIMER OF THE (±)-ASPIDOSPERMA SKELETON

Reinald H. Huizenga[1], Jim van Wiltenburg and Upendra K. Pandit*

Organic Chemistry Laboratory, University of Amsterdam, Nieuwe Achtergracht 129, 1018 WS Amsterdam. The Netherlands.

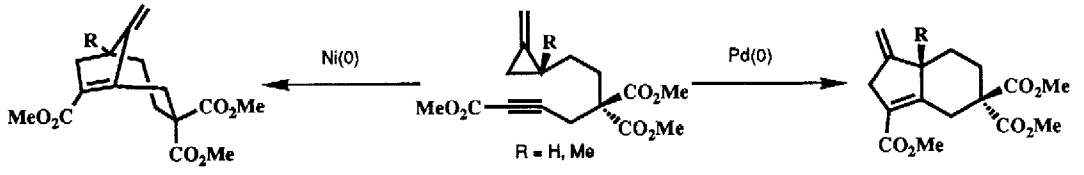
The intermediate A, derived from an imidazolidine system corresponding to a folate model, has been stereospecifically converted to the pentacyclic skeleton of 21-epi-aspidosperma alkaloid (B) in three practical steps.



Tetrahedron Lett.30,7107(1989)

REGIOSPECIFIC INTRAMOLECULAR [2π + 2σ] CYCLOADDITIONS OF METHYLENE CYCLOPROPANES

S. Antony Bapuji, William B. Motherwell, and Michael Shipman
Imperial College of Science, Technology and Medicine, South Kensington, London SW7 2AY, U.K.

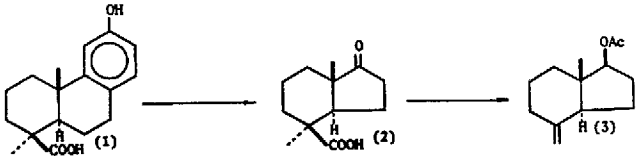


Tetrahedron Lett.30,7111(1989)

STEROID CD-RING SYNTHONS FROM PODOCARPIC ACID BY USE OF THE BARTON RADICAL DECARBOXYLATION REACTION

E. Jane Cochrane, S. Warren Lazer, John T. Pinhey*, and John D. Whitby
Department of Organic Chemistry, University of Sydney, Sydney 2006, Australia

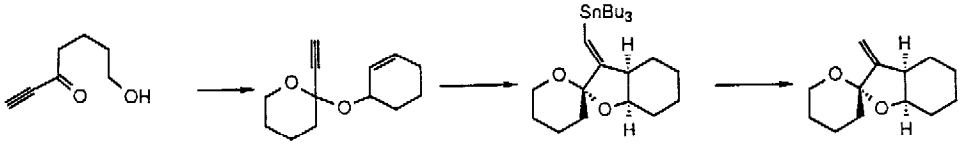
Podocarpic acid (1) has been degraded to the keto acid (2), which, by use of the Barton decarboxylation reaction, was readily converted into the olefin (3), a useful precursor of vitamin D and steroid CD-ring synthons.



Tetrahedron Lett.30,7115(1989)

A NEW ROUTE TO SPIROACETALS AND THE CONSTRUCTION OF A MODEL FOR THE SYNTHESIS OF PHYLLANTHOCIN

Karen R. Biggs[a], Philip J. Parsons[a*], David J. Tapolzcay[b], and J. Mark Underwood[a].
a. Department of Chemistry, University of Southampton, Highfield, Southampton SO9 5NH.
b. ICI Agrochemicals, Jealotts Hill Research Station, Bracknell, Berkshire RG12 6EY.

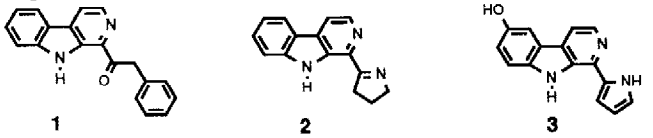


Tetrahedron Lett.30,7117(1989)

The Chemistry of Vicinal Tricarbonyl Compounds. Short Syntheses of Eudistomins T, I and M

Harry H. Wasserman* and Terence A. Kelly
Department of Chemistry, Yale University, New Haven, Connecticut 06511 USA

Vicinal tricarbonyl compounds are used in the syntheses of eudistomins T (**1**), I (**2**) and M (**3**).



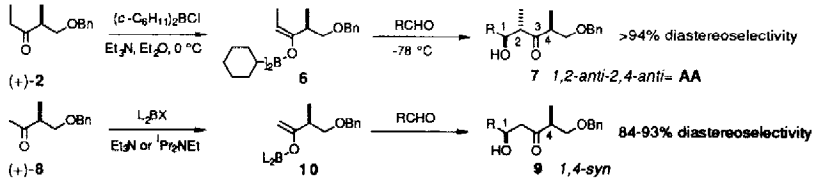
1 **2** **3**

Tetrahedron Lett.30,7121(1989)

ALDOL REACTIONS IN POLYPROPIONATE SYNTHESIS: HIGH π-FACE SELECTIVITY OF ENOL BORINATES FROM α-CHIRAL METHYL AND ETHYL KETONES UNDER SUBSTRATE CONTROL.

Ian Paterson*, Jonathan M. Goodman, and Masahiko Isaka, University Chemical Laboratory, Lensfield Road, Cambridge CB2 1EW, UK

The highly stereoselective aldol reactions **2** → **7** and **8** → **9** proceed under substrate control using suitable boron reagents.

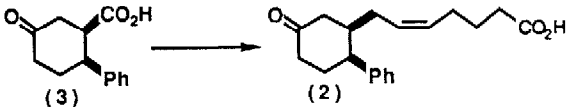


Tetrahedron Lett.30,7125(1989)

PREPARATION OF A CYCLOHEXANONE INTERMEDIATE FOR SYNTHESIS OF THROMBOXANE ANTAGONISTS

Peter J. Harrison
ICI Pharmaceuticals, Alderley Park, Macclesfield, Cheshire, SK10 4TG

The synthesis of cyclohexanone (2), a key intermediate in the preparation of potential thromboxane antagonists, is achieved in 35% overall yield from ketoacid (3).



(3) (2)