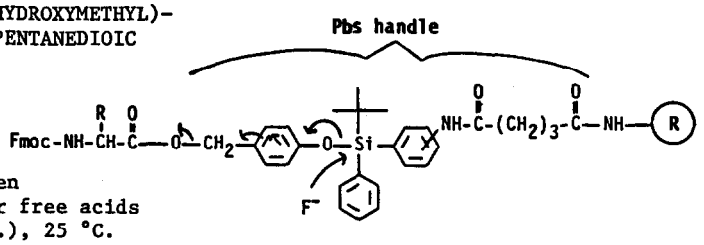
Tetrahedron Lett.28,491(1987)

A NEW FLUORIDOLYSABLE ANCHORING LINKAGE FOR ORTHOGONAL SOLID PHASE PEPTIDE SYNTHESIS: PREPARATION AND PROPERTIES OF THE N-(3 OR 4)-[[[(4-HYDROXYMETHYL)-PHENOXY-t-BUTYLPHENYL]SILYL]PHENYL]PENTANEDIOIC ACID, MONOAMIDE (PBS) HANDLE

Daniel G. Mullen and George Barany*
University of Minnesota
Minneapolis, Minnesota 55455

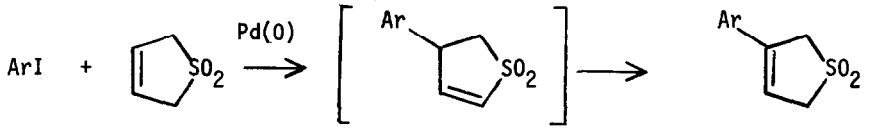


The Pbs handle was synthesized in ten steps and released peptides as their free acids when treated with fluoride (1 equiv.), 25 °C.

Tetrahedron Lett.28,495(1987)

A PREPARATION OF 3-ARYL-2,5-DIHYDROTHIOPHENE-1,1-DIOXIDES FROM ARYL IODIDES

Peter J. Harrington* and Kenneth A. DiFiore
Department of Chemistry, SUNY at Binghamton, Binghamton, NY 13901

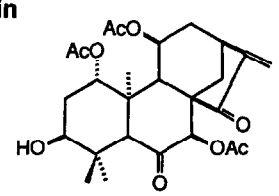


45-70 %

Tetrahedron Lett.28,499(1987)

Structure of Adenanthin

Y.-l. Xu, H.-d. Sun, D.-z. Wang,
T. Iwashita, H. Komura,
M. Kozuka, K. Naya, I. Kubo



Adenanthin **1**

Isolated from *Rabdosia adenantha*

Planar structure was obtained by H-H and C-H COSY, and NOESY techniques on NMR, as well as conventional methods.

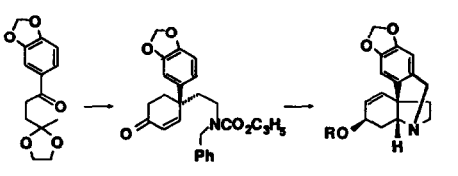
Absolute stereochemistry was determined from cd spectra of di-p-bromobenzoyl derivatives.

Tetrahedron Lett.28,503(1987)

TOTAL SYNTHESES OF (±)-CRININE AND (±)-BUPHANISINE

Stephen F. Martin* and Carlton L. Campbell
Department of Chemistry, University of Texas,
Austin, TX 78712 USA

The total syntheses of (±)-crinine (1) and (±)-buphanisine (2) have been completed, and the key step involved the geminal acylation-alkylation of 3 to lead to the key intermediate 7.



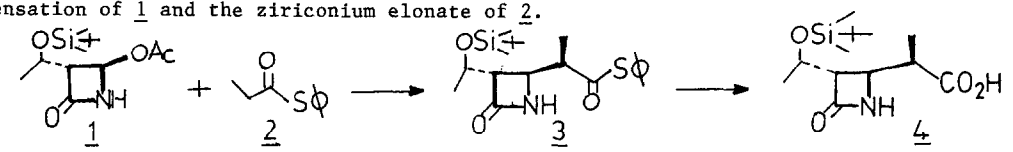
3 7 1:R = H 2:R = Me

Tetrahedron Lett.28,507(1987)

STEREOSELECTIVE SYNTHESIS OF 1-β-METHYLCARBAPENEMS

C. U. Kim*, B. Luh, and R. A. Partyka
Bristol-Myers Company, Pharmaceutical Research and Development Division
P. O. Box 5100, Wallingford, CT 06492-7660, U.S.A.

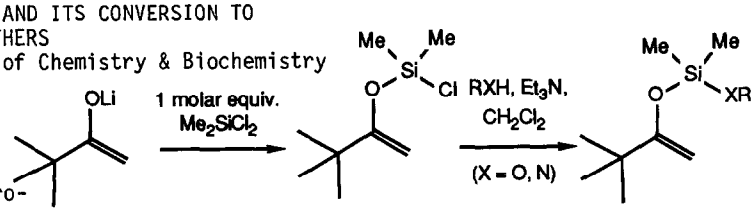
An intermediate 4 for 1-β-methylcarbapenem was prepared via highly stereoselective condensation of 1 and the ziriconium elonate of 2.



Tetrahedron Lett.28,511(1987)

SILICON-FUNCTIONALIZED SILYL ENOL ETHERS: A NOVEL DIALKYLCHLOROSILYL ENOL ETHER AND ITS CONVERSION TO ALKOXY- AND AMINOSILYL ENOL ETHERS

Robert D. Walkup - Department of Chemistry & Biochemistry
Texas Tech University
Lubbock, TX 79409-4260



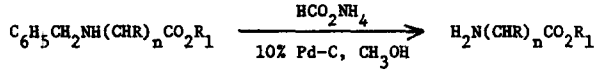
The lithium enolate of pinacolone reacts with dichlorodimethylsilane to form a chlorosilyl enol ether which in turn undergoes nucleophilic substitutions to form other Silicon-Functionalized Silyl Enol Ethers.

Tetrahedron Lett.28,515(1987)

RAPID DEBENZYLATION OF N-BENZYLAMINO DERIVATIVES TO AMINO DERIVATIVES USING AMMONIUM FORMATE AS CATALYTIC HYDROGEN TRANSFER AGENT

Siya Ram* and Leonard D. Spicer
P.E.T. Facility/Nuclear Medicine, Departments of Radiology and Biochemistry, Duke University Medical Center, Durham, NC 27710

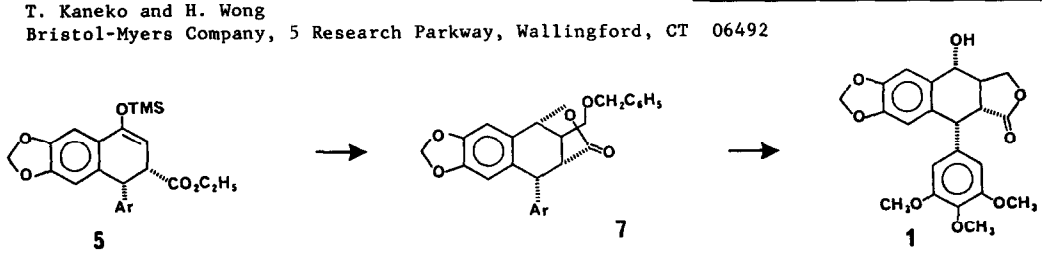
A rapid deprotection procedure for the N-benzyl group to give free amines using HCO_2NH_4 is described.



Tetrahedron Lett.28,517(1987)

Total Synthesis of (±) Podophyllotoxin

T. Kaneko and H. Wong
Bristol-Myers Company, 5 Research Parkway, Wallingford, CT 06492

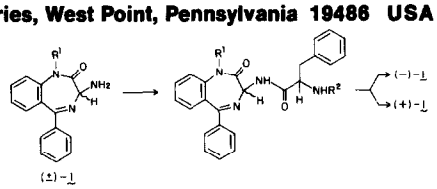


Tetrahedron Lett.28,521(1987)

A NEW AMINE RESOLUTION METHOD AND ITS APPLICATION TO 3-AMINOBENZODIAZEPINES

K. E. Rittle*, B. E. Evans*, M. G. Bock, R. M. DiPardo, W. L. Whitter, C. F. Homnick, D. F. Veber and R. M. Freidinger
Merck Sharp and Dohme Research Laboratories, West Point, Pennsylvania 19486 USA

3-Aminobenzodiazepines, 1 are resolved by the formation, separation and Edman degradation of a pair of phenylalanyl amide diastereomers.

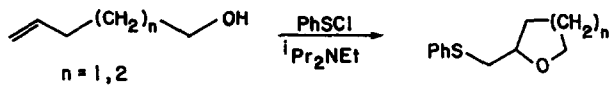


Tetrahedron Lett.28,523(1987)

PHENYLSULFENYL CHLORIDE/N,N-DIISOPROPYLETHYLAMINE: A USEFUL REAGENT FOR CYCLIC ETHER FORMATION (SULFENYLETHERIFICATION)

Sudersan M. Tuladhar and Alex G. Fallis*
Department of Chemistry, Memorial University of Newfoundland, St. John's, Nfld., Canada A1B 3X7

Cyclic ethers and lactones result from treatment of unsaturated precursors with phenylsulfenyl chloride and N,N-diisopropylethylamine.

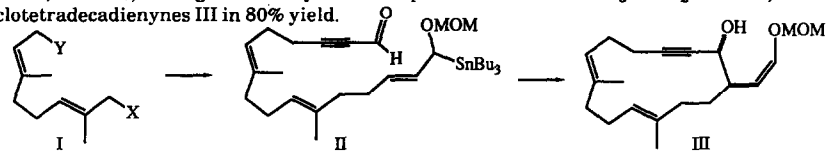


Tetrahedron Lett.28,527(1987)

STEREOSELECTIVE SYNTHESIS OF CEMBRANOLIDE PRECURSORS VIA MACROCYCLIZATION OF α-ALKOXYSTANNANE ALDEHYDES

James A. Marshall, Bradley S. DeHoff and Stephen L. Crooks
Department of Chemistry, University of South Carolina, Columbia, SC 29208 USA

The α-(methoxymethyl)allylstannane propargylic aldehyde II, available in some 14 steps from oxidized geranyl acetate (I; Y = OAc, X = OH), undergoes facile cyclization upon treatment with $BF_3 \cdot OEt_2$ at -78°C, to a 7:1 cis-trans mixture of cyclotetradecadienynes III in 80% yield.

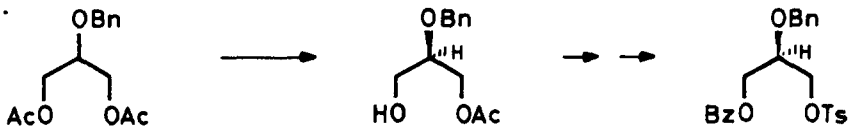


Tetrahedron Lett.28,531(1987)

PURE ENANTIOMERS OF GLYCEROL DERIVATIVES BY ENZYMATIC HYDROLYSIS OF PROCHIRAL ESTERS

V. Kerscher and W. Kreiser, Organische Chemie, Universität Dortmund, Postfach 500500, D-4600 Dortmund, W. Germany

A versatile synthetic glycerol building block is developed by an enzymatic methodology, making both enantiomers available with equal ease and using cheap PPL.

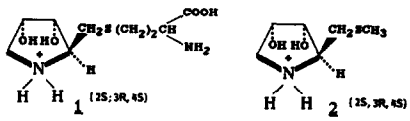


Tetrahedron Lett.28,535(1987)

SYNTHESIS OF HYDROXYLATED PYRROLIDINES. DERIVATIVES AS POTENTIAL INHIBITORS OF SAH/MTA NUCLEOSIDASE.

G. Guillerm, M. Varkados, S. Auvin, F. Le Goffic

A enantioselective synthesis of a new series of dihydroxylated pyrrolidines derivatives is described.

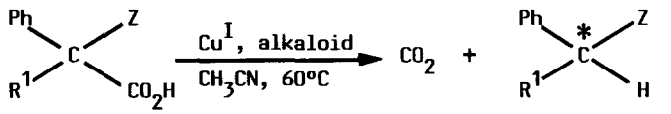


1 (2S;3R,4S) 2 (2S,3R,4S)

Tetrahedron Lett.28,539(1987)

ASYMMETRIC SYNTHESIS BY COPPER-CATALYZED DECARBOXYLATION OF PHENYLMALONIC DIACIDS AND HEMIESTERS

Olivier Toussaint, Patrice Capdevielle and Michel Maumy.
Laboratoire de Recherches Organiques de l'ESPCI, associé au CNRS, 10 rue Vauquelin, 75231 Paris Cedex 05, France.



(racemic) (optically active)

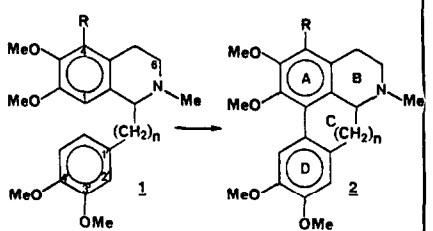
R^1 = alkyl
Z = CO_2H = CO_2Et

- chem. yields : 85-95 %
- op. purities : up to 31 %

Tetrahedron Lett.28,543(1987)

RUTHENIUM(IV) TETRAKIS(TRIFLUOROACETATE), A NEW OXIDIZING AGENT. III. AN EFFICIENT ACCESS TO THE APORPHINE AND HOMO-APORPHINE SKELETONS AND THEIR STRUCTURAL STUDIES.

Y. Landais, D. Rambault, and J.P. Robin*
Université du Maine, Rte de Laval, 72017 Le Mans, France

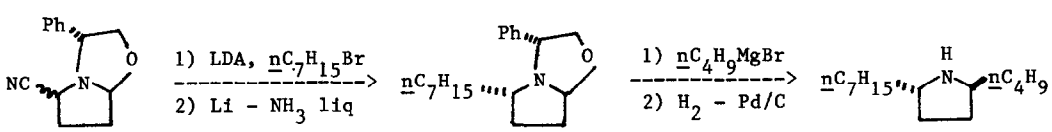


The use of the title reagent -RUTFA- was applied to the non-phenol oxidative coupling of alkoxyphenylalkyltetrahydroisoquinolines 1 into the corresponding bridged biaryl alkaloids 2 pertaining to the aporphine and homoaporphine series. Cryptostyline failed to cyclize in azafluoranthene. The stereostructure and the conformation of homoglaucine were studies by PMR at 500 MHz.

Tetrahedron Lett.28,547(1987)

ASYMMETRIC SYNTHESIS X[1] : A CHIRAL PYRROLIDINE SYNTHON FOR A NEW APPROACH TO THE SYNTHESIS OF ALKALOIDS

P.Q. Huang, S. Arseniyadis and H.-P. Husson*
Institut de Chimie des Substances Naturelles, C.N.R.S., 91190 Gif-sur-Yvette, France



3 5 7

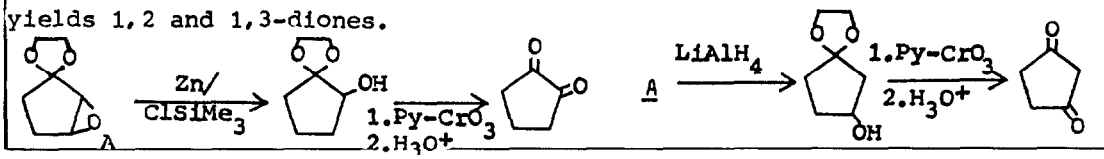
A four-step synthesis of optically pure (+) 7 (a fire ant venom constituent) from the versatile chiral intermediate 3 is described.

REGIOSELECTIVE REDUCTIONS OF 2,3-EPOXY ACETALS WITH ZINC-CHLOROTRIMETHYLSILANE AND LITHIUM ALUMINUM HYDRIDE: CONVENIENT SYNTHESIS OF 1,2 AND 1,3-DIONES

Tetrahedron Lett. 28,551(1987)

Yashwant D. Vankar*, Narayan C. Chaudhuri and C. Trinadha Rao
Department of Chemistry, Indian Institute of Technology Kanpur 208016, INDIA

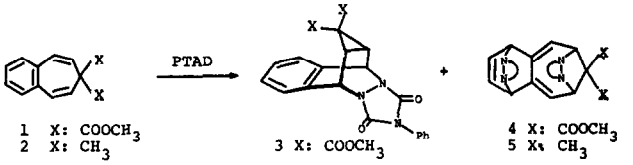
$Zn\text{-}ClSiMe_3$ and $LiAlH_4$ reduce 2,3-Epoxy Acetals to 2-Hydroxy and 3-Hydroxy Acetals respectively in good yields. Their oxidation followed by hydrolysis yields 1,2 and 1,3-diones.



Thermal cycloaddition of 4-phenyl-1.2.4-triazoline-3.5-dione to 7.7-carbomethoxy-7H-benzocycloheptene and 7.7-dimethyl-7H-benzocycloheptene, Cycloheptatriene-Norcaradiene Equilibrium

Tetrahedron Lett. 28,555(1987)

Basri Atasoy, Metin Balcı, Department of Chemistry, Atatürk University, Erzurum/Turkey
Orhan Büyükgüngör, Department of Physics, 19 Mayıs University, Samsun/Turkey.

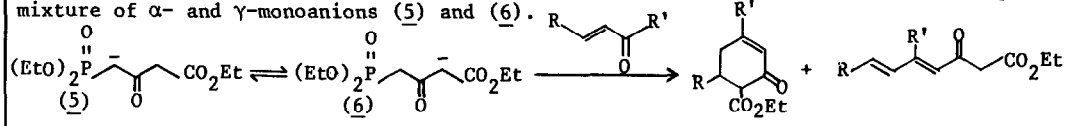


COMMENTS ON THE REACTION OF ETHYL 4-(DIETHOXYPHOSPHINYL)-3-OXOBUTANOATE AND RELATED PHOSPHONATE ESTERS WITH ENALS

Tetrahedron Lett. 28,559(1987)

Cornelis M. Moorhoff and David F. Schneider*
Department of Chemistry, University of Stellenbosch, Stellenbosch, 7600, South Africa

Condensation of deprotonated title phosphonate with α,β-unsaturated carbonyl compounds yielded acyclic and cyclic β-ketoesters which indicated the initial formation of an equilibrium mixture of α- and γ-monoanions (5) and (6).

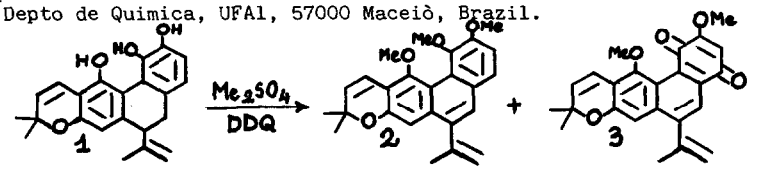


UNEXPECTED DIHYDROPHENANTHRENE FROM CLUSIA PARALYCOLA

Tetrahedron Lett. 28,563(1987)

Franco Delle Monache*, Giuliano Delle Monache, Julianna F. Cavalcanti° and Rogerio M. Pinheiro+
Centro Chimica dei Recettori, Università Cattolica, 00168 Roma, Italy; °Depto de Antibioticos, UFPe, 50000 Recife, Brazil; +Depto de Quimica, UFAl, 57000 Maceiò, Brazil.

A dihydrophenanthrene (1), unexpected in Guttiferae, and its oxidation (DDQ) products (2,3).

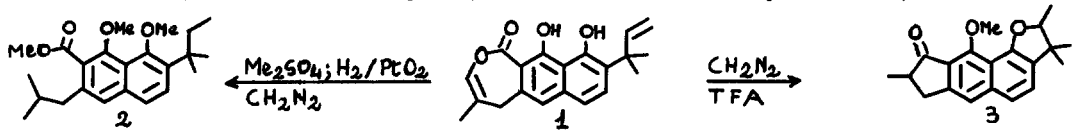


Tetrahedron Lett.28,567(1987)

A NOVEL TYPE OF PRENYLATED ANTHRANOID FROM PSOROSPERMUM GLABERRIMUM

Bruno Botta, Franco Delle Monache* and Giuliano Delle Monache
Centro Chimica dei Recettori, Università Cattolica, 00168 Roma, Italy

Psorolactone (1), a new natural compound, and its transformation products (2,3).

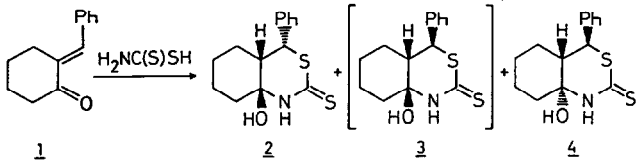


Tetrahedron Lett.28,571(1987)

THE STEREOCHEMISTRY OF REACTION OF 2-BENZYL-IDENECYCLOHEXANONE WITH DITHIOCARBAMIC ACID

Pál Perjési*, Dezső Szabó, Gyula Batta, and András Földesi
Department of Chemistry, University Medical School, H-7643 Pécs, Hungary

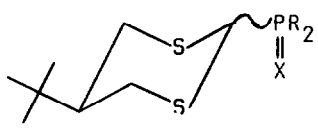
A pH-dependent formation of 2H-3,1-benzothiazine-2-thione derivatives (2-4).



Tetrahedron Lett.28,573(1987)

CONFORMATION OF 2-PHOSPHORYL AND 2-THIOPHOSPHORYL 1,3-DITHIANE DERIVATIVES AND RELATED COMPOUNDS. COMMENTS ON THE ORIGIN OF S-C-P ANOMERIC INTERACTIONS

M.Mikołajczyk*, P.Graczyk and P.Bałczewski
Centre of Molecular and Macromolecular Studies, Polish Academy of Sciences, 90-362 Łódź,Boczna 5 Poland



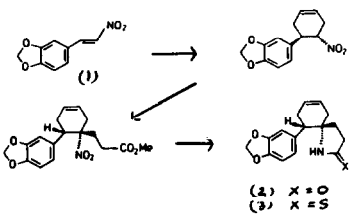
Axial preference in 2-substituted 1,3-dithianes increases in order: $Ph_2P(S) < Ph_2P(O) < (MeO)_2P(O)$.

Tetrahedron Lett.28,577(1987)

A HIGHLY STEREOSELECTIVE SYNTHESIS OF AN AZASPIROLACTAM RELATED TO CEPHALOTAXUS ALKALOIDS

Martin R. Bryce,[a]* John M. Gardiner,[a] Michael B. Hursthouse[b] and Richard L. Short[b]

[a] Department of Chemistry, University of Durham, Durham, DH1 3LE, U.K.
[b] Department of Chemistry, Queen Mary College, Mile End Road, London, E1 4NS, U.K.



Azaspirolactam (2) has been stereoselectively synthesised from (1); the stereochemistry of (2) is confirmed by X-ray analysis of (3)

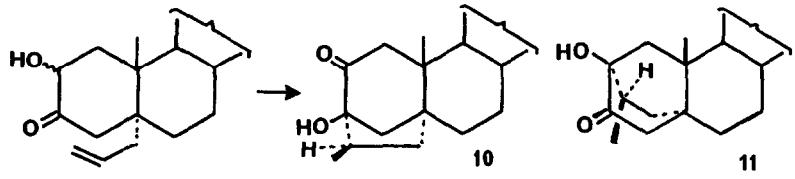
(2) X = O
(3) X = S

Tetrahedron Lett.28,581(1987)

THE ENE REACTION OF 5-ALLYL-2ξ-HYDROXY-5α-CHOLESTAN-3-ONE: AN UNUSUALLY FACILE ENE REACTION

Brian A. Marples* and C. D. Spilling
Department of Chemistry, University of Technology, Loughborough, Leics., LE11 3TU

Title reaction occurs at 110°C

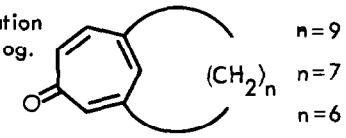


Tetrahedron Lett.28,585(1987)

[7]- AND [9](3,5)TROPONOPHANES AND THE CORRESPONDING HYDROXYTROPYLIOPHANES

Hiroshi Yamaga, Yutaka Fujise and Shô Itô*
Department of Chemistry, Tohoku University, Sendai 980, Japan

Synthesis, geometry, spectra, relative stability and photooxygenation of the title troponophanes. Attempted synthesis of the [6] homolog.



Tetrahedron Lett.28,589(1987)

A SHORT, EFFICIENT SYNTHESIS OF (±)VALERANE

Peter J. Garratt, Martina Pielke, and John R. Porter
Department of Chemistry, University College London,
20 Gordon Street, London WC1H 0AJ.