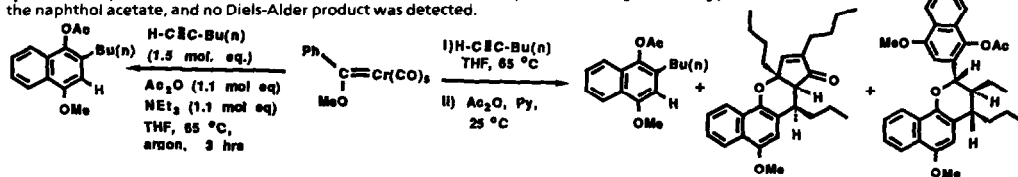


GRAPHICAL ABSTRACTS

REACTION OF ARYL CHROMIUM CARBENE COMPLEXES WITH 1-HEXYNE;
FORMATION OF UNUSUAL DIELS-ALDER CYCLOADDITION PRODUCTS

Research Laboratories, The Upjohn Company, Kalamazoo, Michigan 49001

Reaction of phenylchromium carbene complex with 1-hexyne in THF formed the naphthol as a major product along with two unusual Diels-Alder cycloaddition products. On the other hand, the same reaction in the presence of Ac_2O and NEt_3 produced the naphthol acetate, and no Diels-Alder product was detected.

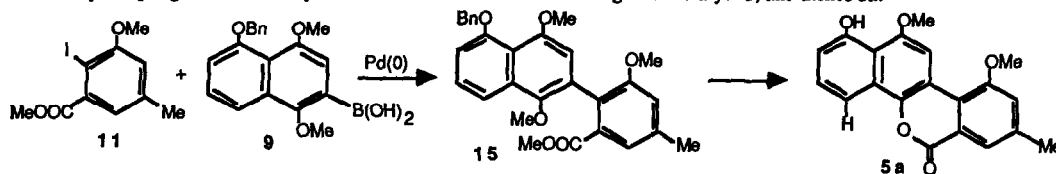


Tetrahedron Lett. 29, 2513 (1988)

TOTAL SYNTHESIS OF THE AGLYCONE OF THE 8-METHYL BENZONAPHTHOPYRONE ANTIBIOTICS, GILVO- & ALBACARCIN M, VIRENOMYCIN M

Michael E. Jung* and Young H. Jung, Department of Chemistry and Biochemistry, University of California, Los Angeles, CA 90024

A short, convergent synthesis of the aglycone 5a of the 8-methyl benzonaphthopyrone antibiotics is described which utilizes as a key step a Suzuki biaryl coupling between the aryl iodide 11 and the boronic acid 9 to give the biaryl 15, and thence 5a.



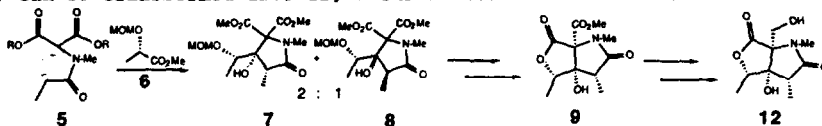
Tetrahedron Lett. 29, 2517 (1988)

SYNTHESIS OF THE FUSED BICYCLIC LACTAM-LACTONE TERMINUS
OF NEOOKAZOLOMYCIN BY A NOVEL DIANION CYCLOCONDENSATION

Andrew S. Kende* and Robert J. DeVita

Department of Chemistry, University of Rochester, Rochester, New York 14627

Reaction of the dianion 5 with lactate 6 yields β -hydroxylactams 7 and 8 in a 2:1 ratio. Lactam 7 can be transformed into 12, a chiral model of the antibiotic neooxazolomycin.

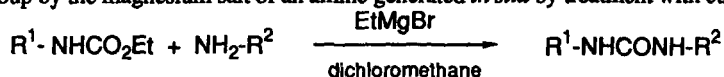


Tetrahedron Lett. 29, 2521 (1988)

SYNTHESIS OF N, N' DISUBSTITUTED UREAS
FROM CARBAMATES

Anwer Basha, Immunosciences Research Area, Department 47K,
Abbott Laboratories, Abbott Park, Illinois 60064

A simple synthesis of N, N' -disubstituted ureas from carbamates is described involving displacement of an alkoxy group by the magnesium salt of an amine generated *in situ* by treatment with ethylmagnesium bromide.



Tetrahedron Lett. 29, 2525 (1988)

DIMERIC PRODUCTS FROM THE DISSOLVING METAL REDUCTION OF CAMPHOR

Tetrahedron Lett. 29, 2527 (1988)

J.W. Huffman, R.H. Wallace and W.T. Pennington

Howard L. Hunter Chemistry Laboratories, Clemson University, Clemson, SC 29634

(+)-Camphor with Li/THF or Li/NH₃ gives a dimeric hydroxy ketone in which one bicyclic ring has been cleaved in addition to the expected pinacols. (+)-Camphor affords (+)-exo-endo, (+)-endo-endo, meso endo-endo pinacols and (+) hydroxy ketone.



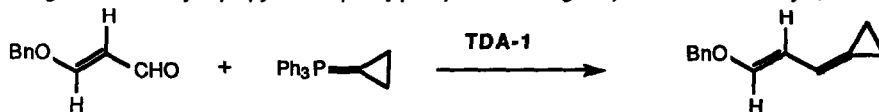
AN EFFICIENT METHOD FOR THE PREPARATION OF ALKYLIDENECYCLOPROPANES

Tetrahedron Lett. 29, 2531 (1988)

Jeffrey A. Stafford and John E. McMurry*

Baker Laboratory, Department of Chemistry, Cornell University, Ithaca, NY 14853

Wittig reactions of cyclopropylidenetriphenylphosphorane using the phase-transfer catalyst, TDA-1, are described.

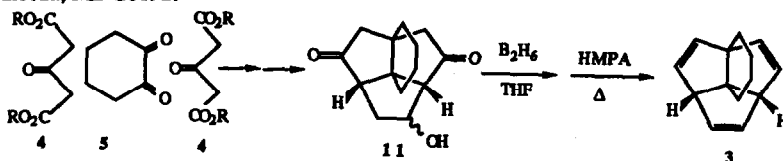


GENERAL APPROACH TO THE SYNTHESIS OF POLYQUINENES VII. SYNTHESIS OF A CENTRO-SUBSTITUTED TRIQUINACENE.

Tetrahedron Lett. 29, 2535 (1988)

A. K. Gupta, U. Weiss and J. M. Cook, Department of Chemistry, University of Wisconsin-Milwaukee, Milwaukee, WI 53201 and NIDDK, Bethesda, MD 20892.

The Weiss reaction between 4 and 5, followed by several steps provided monol 11. This was converted in two steps into 3, as illustrated.



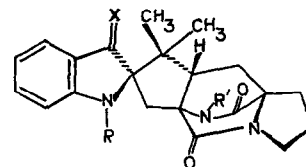
SYNTHETIC APPROACHES TO BREVIANAMIDES A AND B I. PREPARATION OF 4-*p*-METHOXYBENZYL-5-(1'-CARBOMETHOXY-2'-(1'',1''-DIMETHYLALLYL)-2',3'-DIHYDROINDOLE]METHYLIDENE)-1,2-L-PYROLIDINOPIPERAZINE-3,6-DIONE VIA AN IRELAND ESTER ENOLATE CLAISEN REARRANGEMENT.

Tetrahedron Lett. 29, 2539 (1988)

Lois V. Dunkerton*, Hao Chen, and Bruce P. McKilloan¹

Department of Chemistry and Biochemistry, Southern Illinois University,

Carbondale, IL 62901



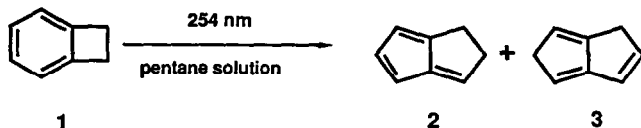
Using an ester enolate Claisen rearrangement to prepare 1-carbomethoxy-2-(1',1'-dimethylallyl)-2,3-dihydroindole-2-carboxylic acid followed by condensation with *N-p*-methoxybenzyl-glycyl-L-proline anhydride gave the title compound, a key intermediate in a synthetic approach to brevianamides A and B.

1 R = R' = H, X = O
2 X = H₂

PHOTOCHEMISTRY OF BENZOCYCLOBUTENE

Tetrahedron Lett. 29, 2543 (1988)

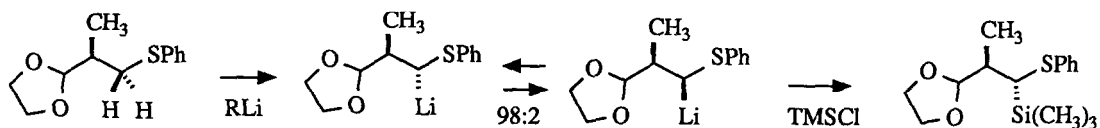
N.J. Turro, Z. Zhang, W.S. Trahanovsky[†], and C.H. Chou[†]
 Department of Chemistry, Columbia University, New York, NY 10027
[†]Department of Chemistry, Iowa State University, Ames, Iowa 50011



DIASTEREOSELECTIVE REACTIONS OF AN ACYCLIC
 α -LITHIATED SULFIDE: A CASE OF THERMODYNAMIC
 CONTROL

Tetrahedron Lett. 29, 2547 (1988)

Patrick G. McDougal*, Brian D. Condon, Miquel D. Laffosse, Jr., Andrea M. Lauro and Don VanDerveer
 School of Chemistry, Georgia Institute of Technology, Atlanta, Georgia 30332

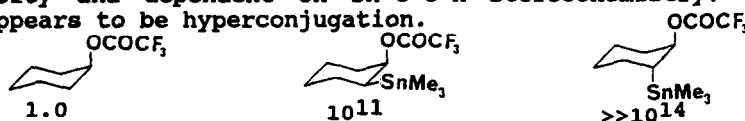


INTERACTION OF THE CARBON-TIN BOND WITH BETA
 POSITIVE CHARGE

Tetrahedron Lett. 29, 2551 (1988)

Joseph B. Lambert* and Gen-tai Wang
 Department of Chemistry, Northwestern University, Evanston, Illinois 60208

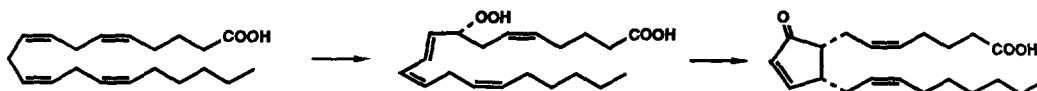
Carbon-tin participation in β carbocation formation is independent of solvent nucleophilicity and dependent on Sn-C-C-X stereochemistry. The dominant mechanism appears to be hyperconjugation.



Biosynthesis of 8-R-HPETE and Preclavulone-A from
 Arachidonate in Several Species of Caribbean Coral. A
 Widespread Route to Marine Prostanoids.

Tetrahedron Lett. 29, 2555 (1988)

E. J. Corey, Seiichi P. T. Matsuda, Ryu Nagata and Martin B. Cleaver
 Department of Chemistry, Harvard University, Cambridge, Massachusetts, 02138

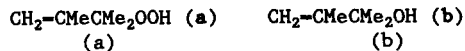


Tetrahedron Lett. 29, 2559 (1988)

THE EXTRAORDINARY SELECTIVITY OF METHOXYPHENYL-CARBENE:
THE CASE OF THE CURIOUS "OLEFIN". R.A. Moss and

J. Wlostowska, Department of Chemistry, Rutgers University, New Brunswick, N.J. 08903

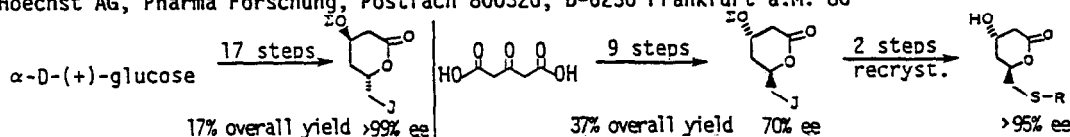
The reaction of MeOCPh with Me₂C=Me₂ gives a low yield of the appropriate cyclopropane, but aged olefin, containing traces of hydroperoxide (a) or alcohol (b) as impurities, selectively affords the formal OH "insertion" products.



Tetrahedron Lett. 29, 2563 (1988)

SYNTHESES OF 4(R)-SILYLOXY-6(S)-IODOMETHYL-
TETRAHYDOPYRAN-2-ONE AND ITS ENANTIOMER,
BUILDING BLOCKS FOR HMG-COA-REDUCTASE INHIBITORS.

E. Baader, W. Bartmann, G. Beck, A. Bergmann, H.-W. Fehlhaber, H. Jendralla,
K. Kessler, R. Saric, H. Schüssler, V. Teetz, M. Weber, G. Wess
Hoechst AG, Pharma Forschung, Postfach 800320, D-6230 Frankfurt a.M. 80



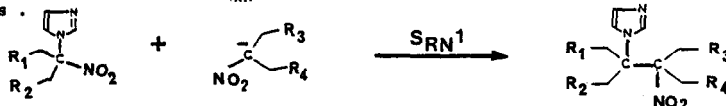
REACTIVITE S_{RN}¹ D'([α-NITROALKYL]-1-IMIDAZOLES :

SYNTHESE D'IMIDAZOLES ALCOYLES EN POSITION 1
PAR DES CHAINES RAMIFIEES ET FONCTIONNALISEES

R. Beugelmans, T. Frinault et A. Lechevallier
Institut de Chimie des Substances Naturelles, C.N.R.S.
91198 Gif-sur-Yvette, France
D. Kiffer et Ph. Maillos
Centre d'Etude du Bouchet, BP 3, 91170 Vert le Petit, France

Tetrahedron Lett. 29, 2567 (1988)

Gem-nitro imidazolyl alkanes reacting under S_{RN}¹ conditions undergo nitro group replacement by variously substituted nitronates .

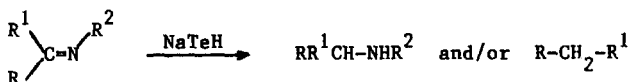


A MECHANISTIC APPROACH TO THE REACTION BETWEEN IMINES
AND SODIUM HYDROGEN TELLURIDE

Tetrahedron Lett. 29, 2571 (1988)

Derek H.R. Barton, Luis Bohé and Xavier Lusinch

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



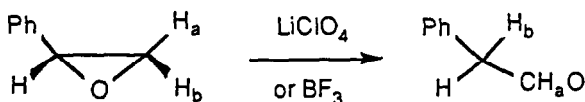
A study of the mechanism of the action of sodium hydrogen telluride on imines is presented. It accounts for the observed reduction of the imine function to secondary amino or methylene groups depending on the structure of the substrate.

DIASTEREOTOPIC SELECTION OF C2 HYDROGENS IN THE
REARRANGEMENT OF C1-SUBSTITUTED EPOXIDES:
AN EXAMINATION OF STYRENE OXIDE.

Tetrahedron Lett. 29, 2575 (1988)

J.M. Coxon and D.Q. McDonald
Department of Chemistry, University of Canterbury, Christchurch, New Zealand.

H_b migration is favoured to H_a
migration in the rearrangement to
aldehyde by 1.4 and 1.14 times
respectively when catalysed by LiClO₄
and BF₃.

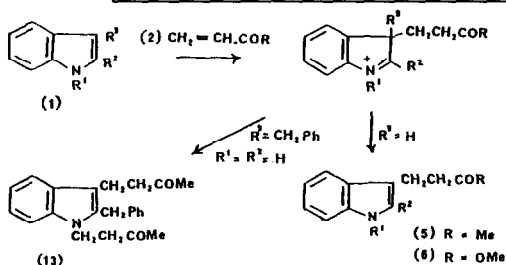


REACTIONS ON SOLID SUPPORTS PART IV¹ : REACTIONS OF
 $\alpha\beta$ -UNSATURATED CARBONYL COMPOUNDS WITH INDOLES
USING CLAY AS CATALYST

Tetrahedron Lett. 29, 2577 (1988)

Z. Iqbal, A.H. Jackson* and K.R.N. Rao
Department of Chemistry, University College,
Cardiff CF1 1XL

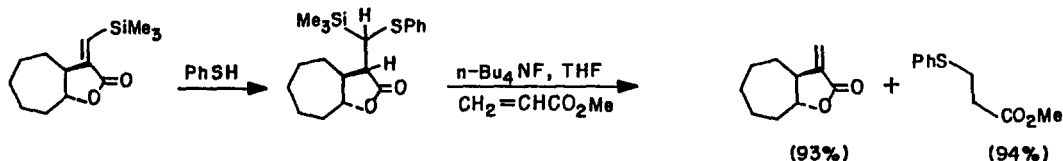
Indoles react with $\alpha\beta$ -unsaturated carbonyl
compounds to give substituted indoles; in one
case a 3-benzyl substituent was displaced into
the 2-position by the incoming electrophile,
thus confirming that electrophilic substitution
in indole occurs primarily at the 3-position.



DESILYLATION OF α -TRIMETHYLSILYLMETHYLENE- γ -LACTONES.
A NEW ROUTE TO α -METHYLENE- γ -LACTONES

Tetrahedron Lett. 29, 2581 (1988)

Marlo D. Bachl* and Eric Bosch
Department of Organic Chemistry, The Weizmann Institute of Science, Rehovot 76100, Israel

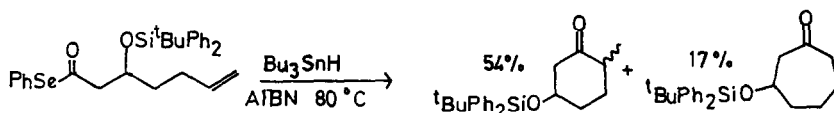


SOME STUDIES ON 6,7-UNSATURATED
CARBONYL RADICAL CYCLIZATIONS

Tetrahedron Lett. 29, 2585 (1988)

David Crich* and Simon M. Fortt, Department of Chemistry, University College
London, 20 Gordon Street, London WC1H OAJ, U.K.

6,7-Unsaturated carbonyl radicals cyclize to give mixtures of cyclohexanones
and cycloheptanones

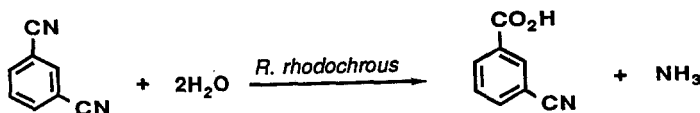


Tetrahedron Lett. 29, 2589 (1988)

BACTERIA IN ORGANIC SYNTHESIS: SELECTIVE CONVERSION OF 1,3-DICYANOBENZENE INTO 3-CYANO BENZOIC ACID

Carmela Bengis-Garber and Arie L. Gutman*, Department of Chemistry, Technion-Israel Institute of Technology, Haifa 32000, Israel.

Suspensions of *Rhodococcus rhodochrous* NCIB 11,216 catalyse hydrolysis of dinitriles into cyanocarboxylic acids under mild conditions.

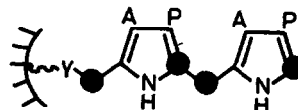


Tetrahedron Lett. 29, 2591 (1988)

¹³C-N.M.R. STUDIES ON THE PYRROMETHANE COFACTOR OF HYDROXYMETHYLBILANE SYNTHASE

Uwe Beifuss, Graham J. Hart, Andrew D. Miller and Alan R. Battersby, University Chemical Laboratory, Lensfield Road, Cambridge, CB2 1EW, U.K.

The pyrromethane cofactor of the enzyme hydroxymethylbilane synthase is proved to be bound to the sulphur of cysteine.



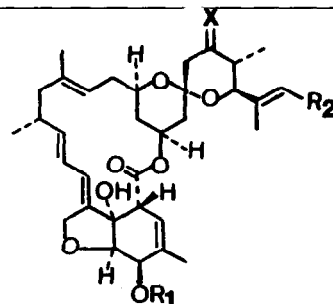
Tetrahedron Lett. 29, 2595 (1988)

Chemical Transformations of S541 Factors (A)-(D): Preparation and Reactions of the 23-Ketones.

N.E. Beddall,^a P.D. Howes,^a M.V.J. Ramsay,^a S.M. Roberts,^a A.M.Z. Slawin,^b D.R. Sutherland,^c E.P. Tiley^a and D.J. Williams^b

(a) Department of Microbiological Chemistry or (c) Development Department, Glaxo Group Research, Greenford, Middlesex UB6 0HE, (b) Department of Chemistry, Imperial College of Science and Technology, South Kensington, London SW7 2AY, U.K.

The stereoselectivities of some reactions involving the ketones [(1) R₁ = R₂ = Me, X = O; R₁ = H, R₂ = ⁱPr, X = O] have been investigated.



Tetrahedron Lett. 29, 2599 (1988)

Unusual Long Chain Ketones of Algal Origin.

J.A. Rechka and J.R. Maxwell*

Organic Geochemistry Unit, School of Chemistry, University of Bristol, Cantock's Close, Bristol BS8 1TS, U.K.

Synthesis of all-*E* and all-*Z* 1-3 has shown that the natural compounds in algae and sediments have the unexpected *E* configuration.

