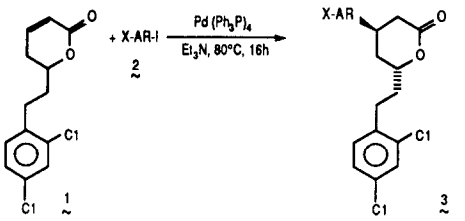
Tetrahedron Lett.28,3179(1987)

PALLADIUM CATALYZED STEREOSPECIFIC MICHAEL ARYLATION OF 6-ALKYL-5,6-DIHYDRO-2H-PYRAN-2-ONES

Gerald E. Stokker

Merck Sharp & Dohme Research Laboratories,
West Point, Pennsylvania 19486, U.S.A.

The Michael arylation with aryl iodides in the presence of Pd [0] resulted in stereospecific addition followed by a hydrogen abstraction from triethylamine.



Tetrahedron Lett.28,3183(1987)

EVIDENCE FOR ELECTRON TRANSFER IN REACTIONS OF NUCLEOPHILES WITH OPTICALLY ACTIVE HALIDES. A CHALLENGE TO THE S_N2 TRANSITION STATE.

E.C. Ashby* and Tung N. Pham
School of Chemistry, Georgia Institute of Technology, Atlanta, GA 30332

Evidence is presented which shows that several typical nucleophilic aliphatic substitution reactions are best represented by an electron transfer process.

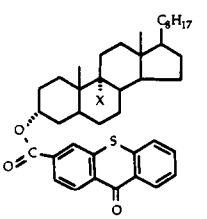
$$RX + Y^- \rightarrow [Y{\cdot}RX^{\cdot-}] \rightarrow [Y{\cdot}R{\cdot}X^-] \rightarrow [Y{\cdot}R{\cdot}\cdots X^-] \rightarrow Y{\cdot} + R{\cdot} + X^- \rightarrow RY + X^-$$

Tetrahedron Lett.28,3187(1987)

THE THIOXANTHONE SYSTEM AS A TEMPLATE IN FREE RADICAL RELAY CHLORINATION OF A STEROID

Ronald Breslow and Tao Guo
Department of Chemistry, Columbia University
New York, NY 10027

$$II + PhICl_2 \longrightarrow HCl + PhI + III$$

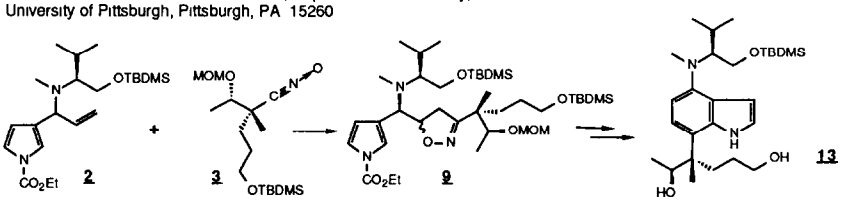


II X = H
III X = Cl

Tetrahedron Lett.28,3189(1987)

USE OF A THERMALLY STABLE, OPTICALLY ACTIVE NITRILE OXIDE IN THE SYNTHESIS OF A LYNGBYATOXIN A INTERMEDIATE.

A. P. KOZIKOWSKI* and X.-M. CHENG, Department of Chemistry,
University of Pittsburgh, Pittsburgh, PA 15260

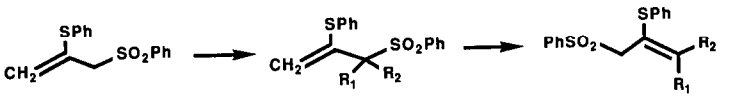


Tetrahedron Lett.28,3193 (1987)

ALLYLIC 1,3-REARRANGEMENT OF THIOPHENYL SUBSTITUTED SULFONES

Albert Padwa, William H. Bullock and Andrew D. Dyszlewski*
Department of Chemistry, Emory University, Atlanta, GA 30322 USA

Substituted thiophenyl allyl sulfones undergo a 1,3-allylic sulfonyl shift and this rearrangement has been utilized with a metallation-alkylation sequence.

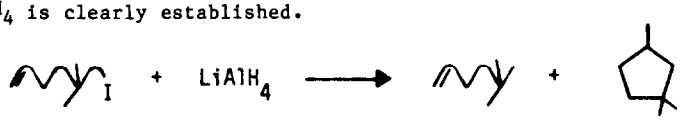


Tetrahedron Lett.28,3197(1987)

The Question of the Validity of Using Radical Probes for Determining SET. The Reaction of Alkyl Halides with $LiAlH_4$.

E.C. Ashby* and Tung N. Pham
School of Chemistry, Georgia Institute of Technology, Atlanta, GA 30332

The validity of using radical probes in the reaction of alkyl iodides with $LiAlH_4$ is clearly established.

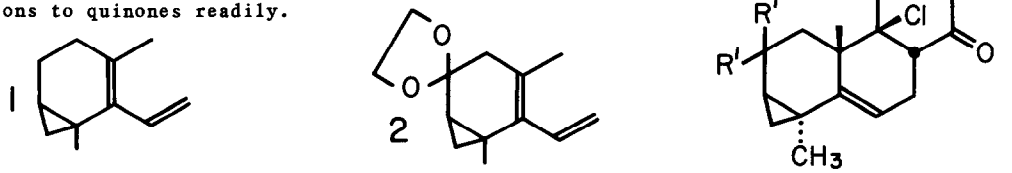


Tetrahedron Lett.28,3201(1987)

DIELS-ALDER REACTIONS OF VINYLBICYCLO[4.1.0]HEPTENES

Makoto Sakaino and Jerrold Meinwald*
Department of Chemistry, Cornell University, Ithaca, NY 14853

Dienes 1 and 2 are synthesized and found to undergo Diels-Alder additions to quinones readily.

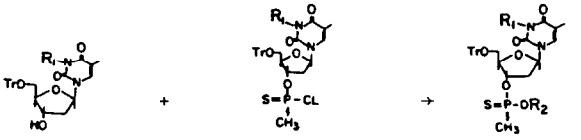


Tetrahedron Lett.28,3205(1987)

SYNTHESIS OF NUCLEOSIDE METHYLPHOSPHONOTHIOATES

Wolfgang K.-D. Brill and Marvin H. Caruthers
Department of Chemistry and Biochemistry, University of Colorado, Boulder, CO 80309 USA

Deoxydinucleotide methylphosphonothioates were synthesized regioselectively and resolved by hplc.

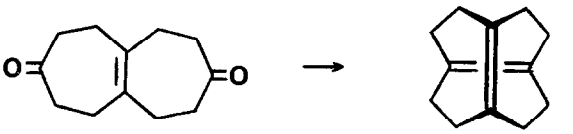


Tetrahedron Lett.28,3209(1987)

AN ATTEMPTED SYNTHESIS OF TRICYCLO[8.2^{1,10}.0^{1,7}.0^{4,10}]-1(7),4(10)-DODECADIENE

John E. McMurry and Rolf Swenson
Department of Chemistry, Cornell University, Ithaca, NY 14853

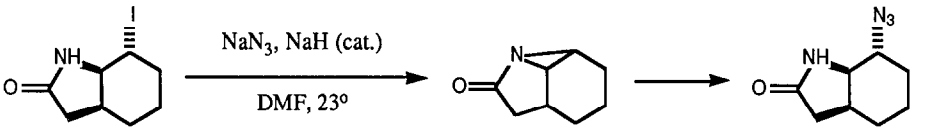
Titanium-induced cyclization of the appropriate diketone yields the title compound, which undergoes rapid Cope rearrangement.



Tetrahedron Lett.28,3213(1987)

STEREOCONTROLLED SYNTHESIS OF DIAMINES FROM IODOLACTAMS

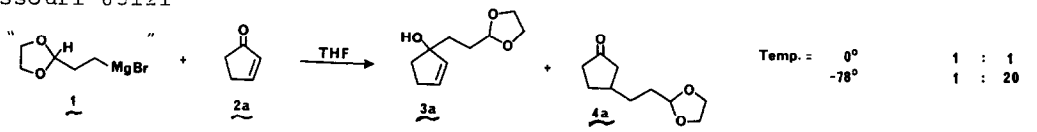
Spencer Knapp* and Anthony T. Levorse
Department of Chemistry, Rutgers University, New Brunswick, New Jersey 08903



Tetrahedron Lett.28.3217(1987)

THE UNCATALYZED CONJUGATE ADDITION REACTION OF 2-(1,3-DIOXOLAN-2-YL)ETHYLMAGNESIUM BROMIDE WITH CYCLIC α,β-ENONES

Michael Sworin* and William L. Neumann
Department of Chemistry, University of Missouri-St. Louis, St. Louis, Missouri 63121

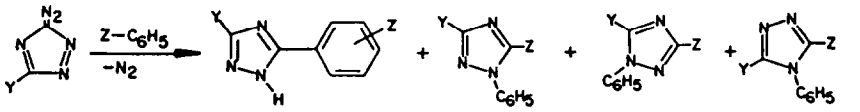


Tetrahedron Lett.28,3221(1987)

SUBSTITUENT AND COORDINATION EFFECTS IN SINGLET REACTIONS OF 3-DIAZO-3H-1,2,4-TRIAZOLES WITH SUBSTITUTED BENZENES AND NITRO COMPOUNDS

J. Glinka, D. Fiscus, C. B. Rao and H. Shechter
Chemistry Department, The Ohio State University, Columbus, Ohio 43210

3-Diazo-3H-1,2,4-triazoles and benzenes give carbenic products of substitution and coordination.

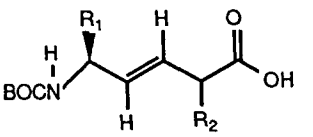


Tetrahedron Lett.28.3225(1987)

AMIDE BOND SURROGATES : A GENERAL SYNTHETIC ROUTE TO TRANS-CARBON-CARBON DOUBLE BOND ISOSTERES.

Youe-Kong Shue*, George M Carrera , Jr., and Alex M. Nadzan
Neuroscience Research, Pharmaceutical Products Division
Abbott Laboratories, Abbott Park, Illinois 60064

A practical synthesis toward trans-double bond replacements of amide bond pseudopeptides has been accomplished.

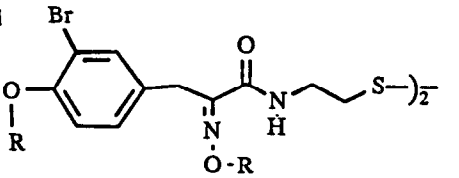


Tetrahedron Lett.28.3229(1987)

PHENOLIC CONSTITUENTS OF *PSAMMAPLYSILLA*

Emilio Quiñoà, and Phillip Crews* Department of Chemistry and Institute for Marine Studies, University of California, Santa Cruz, Ca. 95064

Two monobromo tyrosine derivatives have been isolated from a Tonga sponge. These compounds include 3-bromo-4-hydroxyphenylacetonitrile (**1**) and psammaplin A (**2**).

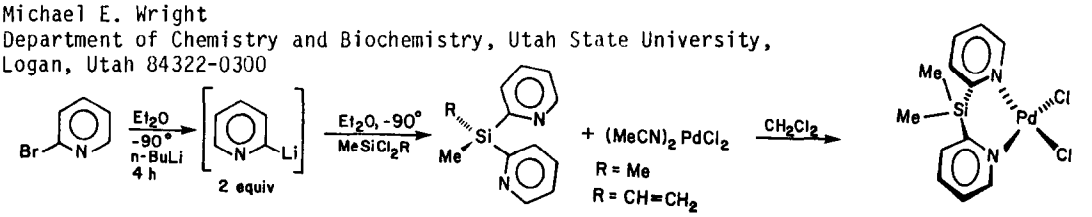


2 R = H

Tetrahedron Lett.28.3233(1987)

PREPARATION OF TWO NEW BIS(2-PYRIDYL)SILANE LIGANDS AND THE COPOLYMERIZATION OF MESI(2-PYRIDYL)$_2$(CH=CH$_2$) WITH STYRENE AND DIVINYLBENZENE

Michael E. Wright
Department of Chemistry and Biochemistry, Utah State University, Logan, Utah 84322-0300

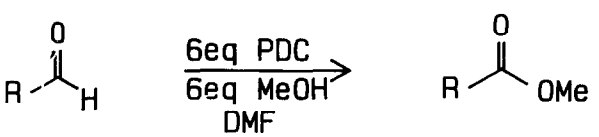


Tetrahedron Lett.28.3235(1987)

A NEW METHOD FOR THE CONVERSION OF ALDEHYDES TO METHYL ESTERS USING PYRIDINIUM DICHROMATE AND METHANOL IN DIMETHYLFORMAMIDE.

Brian O'Connor and George Just*
Department of Chemistry, McGill University, Montreal, Canada H3A 2K6

A new method for the conversion of aldehydes to methyl esters using pyridinium dichromate is described.

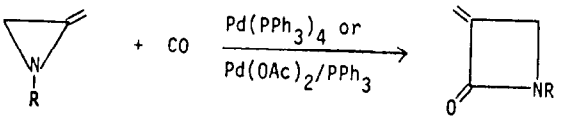


Tetrahedron Lett.28.3237(1987)

REGIOSPECIFIC SYNTHESIS OF α-METHYLENE-β-LACTAMS BY A HOMOGENEOUS PALLADIUM CATALYZED RING EXPANSION-CARBONYLATION REACTION

Howard Alper* and Nathalie Hamel
Department of Chemistry, University of Ottawa, Ottawa, Ontario K1N 9B4 Canada

Synthesis of α-methylene-β-lactams by palladium catalyzed carbonylation of methyleneaziridines

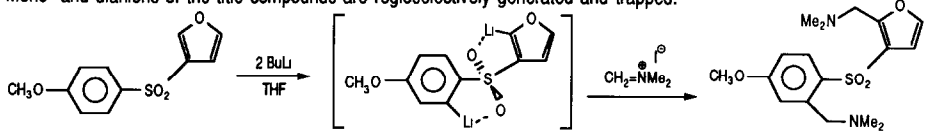


Tetrahedron Lett.28,3241(1987)

REGIOSELECTIVE GENERATION AND TRAPPING OF MONO- AND DIANIONS OF 3-ARYLSULFONYL FURANS. BIDENTATE CARBANION STABILIZATION VIA SULFONES.

George D. Hartman* and Wasyl Halczenko
Merck Sharp & Dohme Research Laboratories,
West Point, Pennsylvania 19486

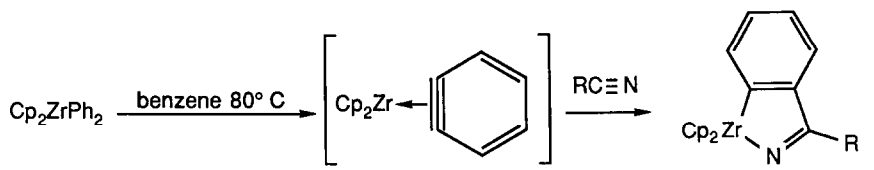
Mono- and dianions of the title compounds are regioselectively generated and trapped.



Tetrahedron Lett.28,3245(1987)

THE ZIRCONOCENE INDUCED COUPLING OF BENZYNE WITH NITRILES: SYNTHESIS, STRUCTURE AND REACTIONS OF NOVEL AZAMETALLACYCLOPENTENES

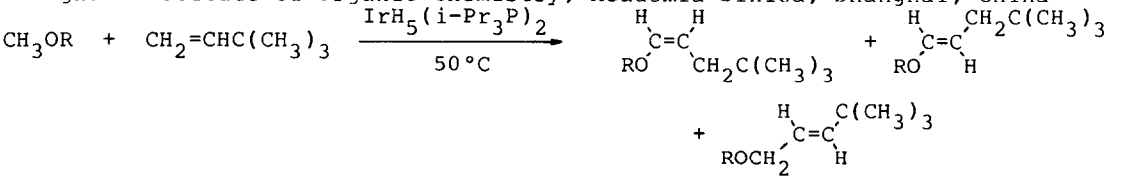
Stephen L. Buchwald*, Ann Sayers, Brett T. Watson and John C. Dewan



Tetrahedron Lett.28,3249(1987)

IRIDIUM PENTAHYDRIDE COMPLEX CATALYZED FORMATION OF C-C BOND BY C-H BOND ACTIVATION FOLLOWED BY OLEFIN INSERTION

Yingrui Lin*, Dawei Ma and Xiyan Lu
Shanghai Institute of Organic Chemistry, Academia Sinica, Shanghai, China

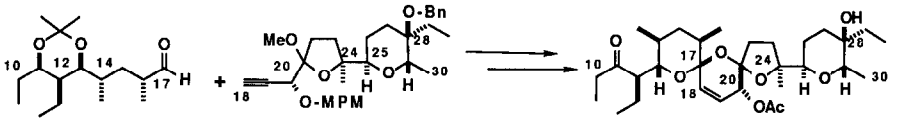


STEREOSELECTIVE SYNTHESIS OF THE MIDDLE (C10-C17) AND RIGHT (C18-C30) SEGMENTS, AND THEIR COUPLING TO COMPLETE A FORMAL SYNTHESIS OF THE POLYETHER ANTIBIOTIC SALINOMYCIN

Tetrahedron Lett.28,3253(1987)

Kiyoshi Horita, Satoshi Nagato, Yuji Oikawa, and Osamu Yonemiysu*
Fuculty of Pharmaceutical Sciences, Hokkaido University, Sapporo, 060, Japan

A formal synthesis of the polyether antibiotic salinomycin was achieved by synthesizing (C10-C30) segment which was converted to salinomycin by Kishi.

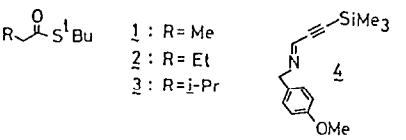


FURTHER STUDIES ON THE STEREOCHEMISTRY OF METAL ENOLATE - IMINE CONDENSATION REACTIONS

Tetrahedron Lett.28,3257(1987)

Genji Iwasaki[a] and Masakatsu Shibasaki*[a,b] [a]Sagami Chemical Research Center, Nishi-Ohnuma, Sagamihara, Kanagawa 229, Japan and [b]Faculty of Pharmaceutical Sciences, Hokkaido University, Sapporo 060, Japan

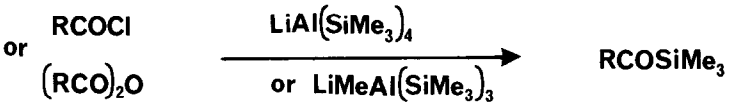
The zirconium enolates of 1, 2 and 3 condensed with the imine 4 in a syn selective manner, while the diethylaluminum enolates of 1 and 2 provided the anti products selectively.



CONVENIENT PREPARATION OF ACYLTRIMETHYLSILANES FROM CARBOXYLIC ACID DERIVATIVES.

Tetrahedron Lett.28,3261(1987)

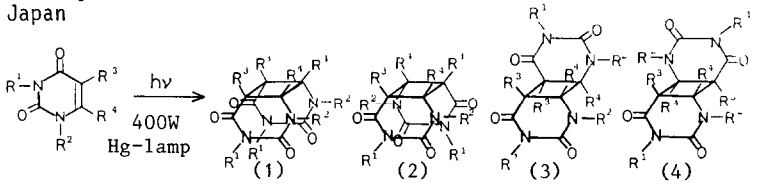
J. Kang, J.H. Lee, K.S. Kim, J.U. Jeong and C. Pyun
Department of Chemistry, Sogang University, Mapoku, Seoul 121, KOREA



HIGHLY STEREOCONTROLLED PHOTODIMERIZATION OF TETRAMETHYL-URACIL BY SMECTIC LIQUID CRYSTALLINE PHASE

Tetrahedron Lett.28,3263(1987)

Tomohisa Nagamatsu, Chikako Kawano, Yasutaka Orita, and Takehisa Kunieda*
Faculty of Pharmaceutical Sciences, Kumamoto University, 5-1, Oe-honmachi, Kumamoto 862, Japan

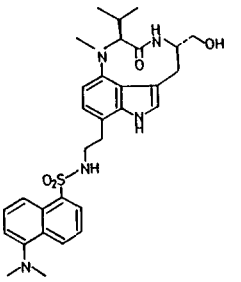


n-Bu Stearate	(2)/(4),Yield
solid(5°C)	67/33 , 98%
smectic(16°C)	11/89 , 91%
isotropic(20°C)	50/50 , 5%

Tetrahedron Lett.28,3267(1987)

SYNTHESIS OF A BIOLOGICALLY ACTIVE FLUORESCENT INDOLACTAM DERIVATIVE

Kazuhiro Irie, Nobuyuki Hagiwara and Koichi Koshimizu*
Department of Food Science and Technology, Faculty of Agriculture,
Kyoto University, Kyoto 606, Japan



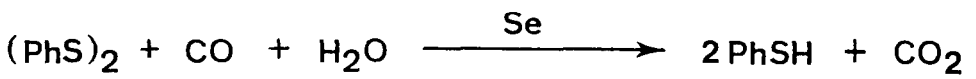
(-)-7-(2-N-Dansylaminoethyl)indolactam V was prepared from (-)-indolactam V, the fundamental structure of teleocidins.

Tetrahedron Lett.28,3271(1987)

SELENIUM, CARBON MONOXIDE, AND WATER AS A NEW REDUCTION SYSTEM: REDUCTIVE CLEAVAGE OF DISULFIDES AND DISELENIDES TO THIOLS AND SELENOLS

Akiya Ogawa, Yutaka Nishiyama, Nobuaki Kambe, Shinji Murai, and Noboru Sonoda
Department of Applied Chemistry, Faculty of Engineering, Osaka University, Suita, Osaka 565, Japan

Disulfides and diselenides were effectively reduced to the corresponding thiols and selenols with carbon monoxide and water using selenium.

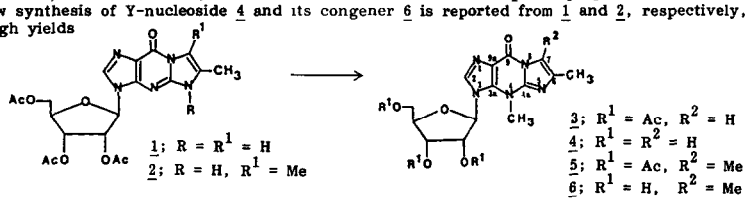


Tetrahedron Lett.28,3275(1987)

AN EFFICIENT SYNTHESIS OF Y-NUCLEOSIDE (WYOSINE) BY REGIOSPECIFIC METHYLATION OF N^4-DESMETHYL-WYOSINE USING ORGANOZINC REAGENT.

H.Bazin, X-X. Zhou, C. Glemarec & J. Chattopadhyaya*

A new synthesis of Y-nucleoside 4 and its congener 6 is reported from 1 and 2, respectively, in high yields

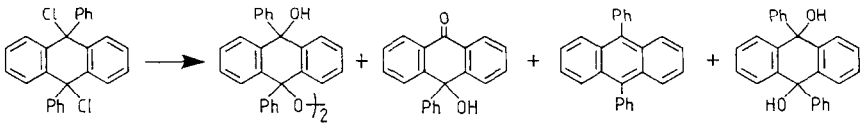


Tetrahedron Lett.28,3279(1987)

REACTION OF SUPEROXIDE AND OZONATE RADICAL-IONS WITH 9,10-DICHLORO-9,10-DIPHENYLDIHYDROANTHRACENE

Alexander R. Forrester and Vemeshetti Purushotham
Chemistry Department, University of Aberdeen, Old Aberdeen AB9 2UE, Scotland

Reaction of dichlorodihydran anthracene (1) with $O_2^{\cdot-}$ or $O_3^{\cdot-}$ gives mixtures of the products shown.

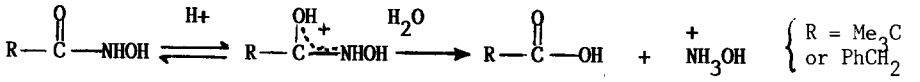


Tetrahedron Lett.28,3283(1987)

ON THE RATE MAXIMA OBSERVED IN THE ACID-HYDROLYSIS OF ALKYLHYDROXAMIC ACIDS

by A J Buglass, M Dorr and M Juffkins, Department of Science, Cambs College of Arts and Technology, Cambridge CB1 1PT

The protonation equilibrium and mechanism of the reaction are discussed in terms of different acidity functions that control the key reaction steps.



Tetrahedron Lett.28,3285(1987)

INTRAMOLECULAR REACTIONS OF ACYCLIC N-ACYLIMINIUM IONS III[1,2]
SILICON ASSISTED CYCLOCONDENSATION OF GLYOXYLIC ESTERS TO PROLINE AND PIPECOLIC ACID DERIVATIVES

Hendrik H. Mooiweer, Henk Hiemstra*, Hendrikus P. Fortgens, and W.Nico Speckamp*,
Laboratory of Organic Chemistry, University of Amsterdam,
Nieuwe Achtergracht 129, 1018 WS Amsterdam, The Netherlands.