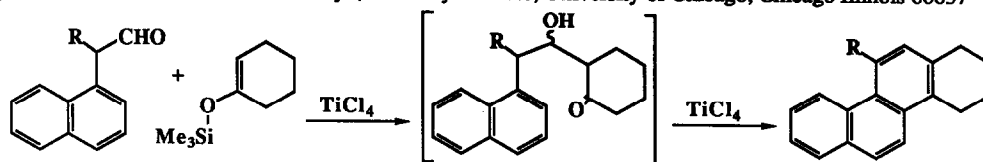


GRAPHICAL ABSTRACTS

Tetrahedron Lett. 29, 3885 (1988)

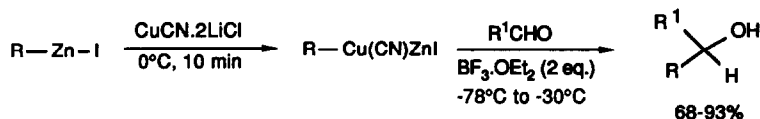
A NEW SYNTHESIS OF POLYCYCLIC AROMATIC HYDROCARBONS VIA TITANIUM(IV)-CATALYZED ALDOL-TYPE CONDENSATION OF SILYL ENOL ETHERS WITH 2-ARYLACETALDEHYDES
 Pasquale Di Raddo and Ronald G. Harvey*, Ben May Institute, University of Chicago, Chicago Illinois 60637



Tetrahedron Lett. 29, 3887 (1988)

THE REACTION OF THE HIGHLY FUNCTIONALIZED COPPER REAGENTS $\text{RCu}(\text{CN})\text{ZnI} \cdot \text{BF}_3$ WITH ALDEHYDES

Ming Chang P. Yeh, Paul Knochel* and Leroy E. Santa
 Department of Chemistry, The University of Michigan, Ann Arbor, Michigan 48109



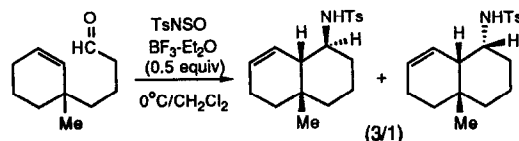
R may contain functional groups like an ester, a nitrile, an enoate or an imide.

Tetrahedron Lett. 29, 3891 (1988)

GENERATION AND INTRAMOLECULAR CATIONIC CYCLIZATIONS OF N-TOSYLIMINES DERIVED FROM ENOLIZABLE ALDEHYDES

Michael J. Melnick, Alan J. Freyer and Steven M. Weinreb*
 Department of Chemistry, The Pennsylvania State University, University Park, PA 16802

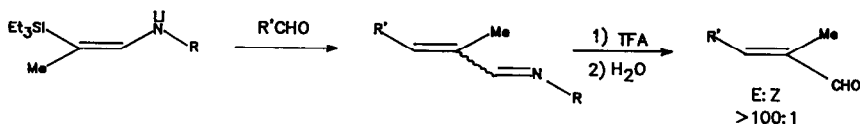
Boron trifluoride etherate promotes both *in situ* formation of N-tosyliminium complexes from olefinic enolizable aldehydes and N-sulfinyl-p-toluenesulfonamide, and subsequent intramolecular electrophilic cyclization to afford homoallylic amines.



Tetrahedron Lett. 29, 3895 (1988)

A HIGHLY SELECTIVE METHOD FOR THE SYNTHESIS OF E- α -METHYL- α,β -UNSATURATED ALDEHYDES

R. Desmond, S.G. Mills*, R.P. Volante and I. Shinkai
 Merck Sharp & Dohme Research Laboratories, P.O. Box 2000, Rahway, New Jersey 07065

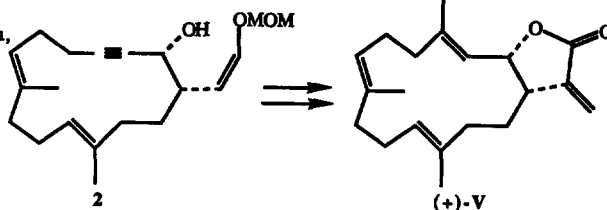


STEREOSELECTIVE TOTAL SYNTHESIS OF CEMBRANOLIDES THROUGH CYCLIZATION OF A HOMOCIRAL (α -ALKOXYALLYL)-STANNANE PRECURSOR

James A. Marshall and Wei Yi Gung

Department of Chemistry, University of South Carolina, Columbia, South Carolina 29208 U.S.A.

The synthesis of (+)-V, an unnamed cembranolide found in a soft coral inhabitant of the Great Barrier Reef, from the homochiral synthetic intermediate 2 of previously defined absolute stereochemistry is described.

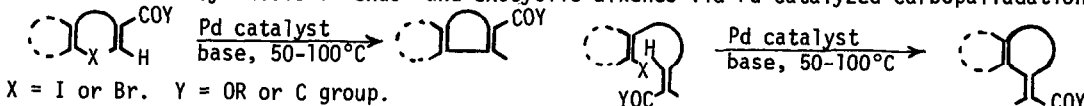


Tetrahedron Lett. 29, 3899 (1988)

PALLADIUM-CATALYZED CYCLIZATION OF ALKENYL AND ARYL HALIDES CONTAINING α,β -UNSATURATED CARBONYL GROUPS VIA INTRAMOLECULAR CARBOPALLADATION

Brian O'Connor, Yantao Zhang and Ei-ichi Negishi,* Department of Chemistry, Purdue University, W. Lafayette, Indiana 47907, U.S.A. Fen-Tair Luo* and Jya-Wei Cheng, Institute of Chemistry, Academia Sinica, Nankang, Taipei, Taiwan

A selective synthesis of endo- and exocyclic alkenes via Pd-catalyzed carbopalladation.

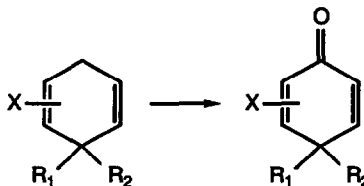


Tetrahedron Lett. 29, 3903 (1988)

AN IMPROVED PROCEDURE FOR THE CONVERSION OF 3,3-DISUBSTITUTED-1,4-CYCLOHEXADIENES TO 2,5-CYCLOHEXADIEN-1-ONES

Arthur G. Schultz*, Arthur G. Taveras, and Roger E. Harrington
Department of Chemistry, Rensselaer Polytechnic Institute, Troy, New York 12180-3590

The bis-allylic oxidations of 1,4-cyclohexadienes with *tert*-butyl hydroperoxide and pyridinium dichromate give 2,5-cyclohexadien-1-ones in good to excellent yields.



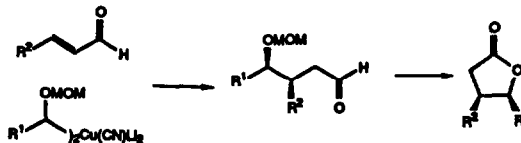
Tetrahedron Lett. 29, 3907 (1988)

HIGHLY SELECTIVE SYN ACYCLIC HOMOALDOL CHEMISTRY. SYNTHESIS OF CIS-3,4-DISUBSTITUTED BUTYROLACTONES

Russell J. Linderman* and Joyce R. McKenzie

Department of Chemistry, North Carolina State University, Raleigh, NC 27695

Syn acyclic homoaldol products have been prepared by the conjugate addition of α -alkoxyorganocuprates to enals with up to >250:1 selectivity.

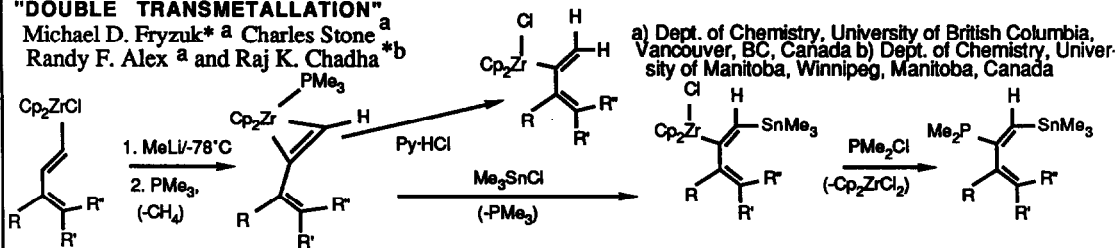


Tetrahedron Lett. 29, 3911 (1988)

TRANSITION METAL DIENYLs IN ORGANIC SYNTHESIS: THE PREPARATION OF 1,2-DIMETALLATED 1,3-DIENES VIA "DOUBLE TRANSMETALLATION"

Michael D. Fryzuk*^a & Charles Stone^a
Randy F. Alex^a and Raj K. Chadha*^b

Tetrahedron Lett. 29, 3915 (1988)



SYNTHESIS OF THIOPHOSPHATE ANALOGUES OF DL-*myo*-INOSITOL 1,2-CYCLIC PHOSPHATE
Carsten Schultz, Thomas Metschies, Bernd Jastorff
Institut für org. Chemie, Universität Bremen, D-2800 Bremen 33, FRG

Tetrahedron Lett. 29, 3919 (1988)

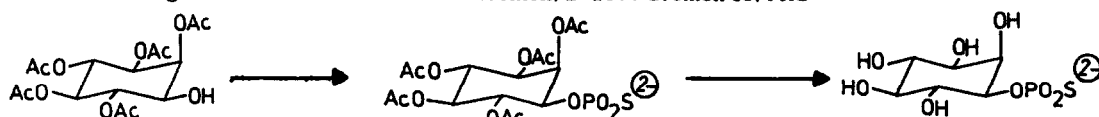
DL-*myo*-Inositol 1,2-cyclic thiophosphate was synthesized by a new cyclothiophosphorylation method.



SYNTHESIS OF *myo*-INOSITOL 1-PHOSPHATE AND ITS THIOPHOSPHATE ANALOGUE

Thomas Metschies, Carsten Schultz, Bernd Jastorff
Institut für Organische Chemie, Universität Bremen, D-2800 Bremen 33, FRG

Tetrahedron Lett. 29, 3921 (1988)

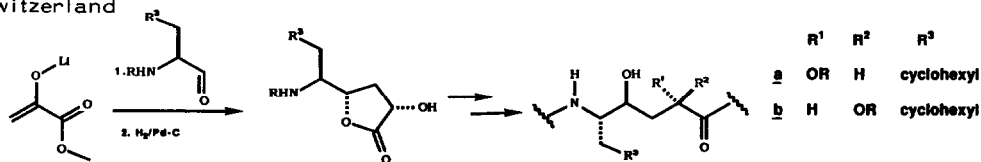


DL-*myo*-Inositol 1-phosphate and its thiophosphate analogue were synthesized by a novel method.

NEW DIASTEREoselective SYNTHESIS OF NOVEL CHIRAL γ -(AMINOALKYL)- α -HYDROXY- γ -LACTONES AND THEIR APPLICATION FOR THE SYNTHESIS OF RENIN INHIBITORS.

Rainer Metternich* and Werner Lüdi, Preclinical Research, SANDOZ Ltd., CH-4002 Basle, Switzerland

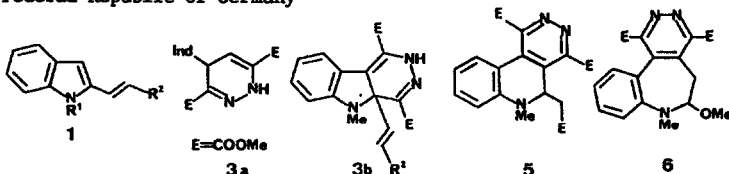
Tetrahedron Lett. 29, 3923 (1988)



FIRST CYCLOADDITIONS OF 2-VINYLIINDOLES WITH DIMETHYL 1,2,4,5-TETRAZINE-3,6-DICARBOXYLATE: DIELS-ALDER REACTIONS WITH INVERSE ELECTRON DEMAND TO NEW SUBSTITUTED AND ANNELATED PYRIDAZINES

Ulf Pindur* and Myung-Hwa Kim - Institut für Pharmazie im Fachbereich Chemie und Pharmazie der Universität, Saarstr. 21, D-6500 Mainz, Federal Republic of Germany

2-Vinyliindoles **1** react highly selectively with dimethyl 1,2,4,5-tetrazine-3,6-dicarboxylate to give new pyridazines **3a** and **7** and annelated derivatives **3b**, **5**, and **6**.



ALKALI-METAL INDUCED C,C-BOND CLEAVAGE, C,H-BOND CLEAVAGE, AND CYCLOPOLYMERIZATION IN 1,5-HEXADIENES Tetrahedron Lett. 29, 3929 (1988)

Rainer Trinks and Klaus Müllen
Department of Organic Chemistry, University of Mainz, D-6500 Mainz, FRG

Reaction of the 1,5-dienes 3,4-homotropilidene (**3**) and 2,5-diphenylhexa-1,5-diene (**4**) with alkali metals induces C,H-bond cleavage (hydride formation) and cyclopolymerization, respectively.



L'AZA-YLURE N-LITHIE (C₆H₅)₃P=N-Li, REACTIF D'AMINATION

H.J. CRISTAU*, L. CHICHE, J. KADOURA et E. TORREILLES*

Laboratoire de Chimie Organique (UA 458) ENSCM, 8, rue de l'École Normale - 34075 - MONTPELLIER CEDEX (France)



REDUCTION POTENTIALS OF REAGENTS : II- A TOOL TO ANTICIPATE YIELDS OF ORGANOMETALLIC REACTIONS? Tetrahedron Lett. 29, 3935 (1988)

J.E. Dubois, P. Bauer and S. Briand
I.T.O.D.Y.S. (Université Paris VII), 1 rue Guy de la Brosse 75005 Paris France

For the reaction $R-Br + \text{Ketone} \xrightarrow{Li} \text{Products}$

semiquantitative relationships are obtained between yields and reduction potentials of reagents :

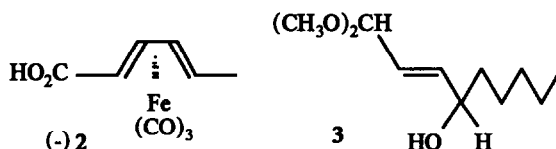


SORBIC ACID IRON TRICARBONYL COMPLEX ASTetrahedron Lett.29,3937 (1988)**RESOLVING AGENT. CHIRAL SYNTHESIS OF 4-HYDROXY NONENAL AND CORIOLIC ACID**

L. DE MONTARBY, P. MOSSET and R. GRÉE

Laboratoire de Chimie Organique Biologique, ENSCR, 35700 RENNES, FRANCE

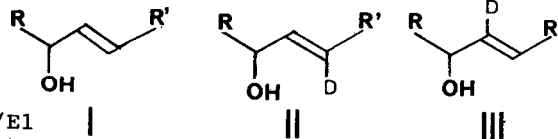
The chiral complex (-)2 is an efficient resolving agent for alcohol 3 which is used in the chiral syntheses of 4-hydroxy nonenal and coriolic acid.

Tetrahedron Lett.29,3945 (1988)

DEUTERIUM ISOTOPE EFFECTS ON ^{13}C NMR CHEMICAL SHIFTS. A Measurement for the Deuterium Labeling of Allylic Alcohols.

William SMADJA

Laboratoire de Chimie Organique,
Université Pierre et Marie Curie Tour 45/E1
4, Place Jussieu, 75252 Paris Cedex 05 FRANCE

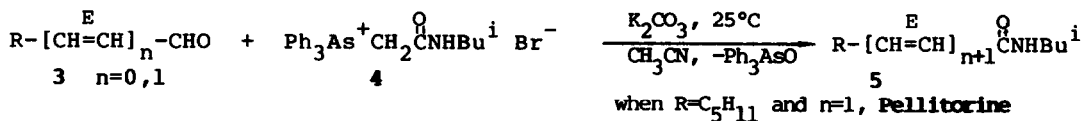


I:II:III-Ratios of five allylic alcohol mixtures are accurately measured using secondary deuterium isotope effect on ^{13}C NMR chemical shifts " $^2\Delta\text{C}(\text{D})$ ".

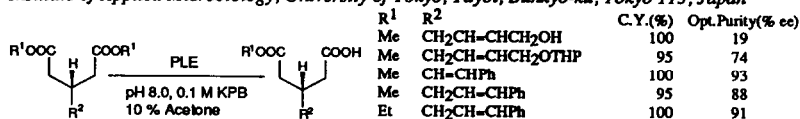
Tetrahedron Lett.29,3949 (1988)

**A GENERAL AND HIGHLY STEREOSELECTIVE APPROACH
TO UNSATURATED ISOBUTYLAMIDES VIA ARSONIUM SALT.
NEW SYNTHESIS OF PELLITORINE**

Lilan Shi, Jianhua Yang, Xueqing Wen, Yao-Zeng Huang
Shanghai Institute of Organic Chemistry, Academia Sinica, 345 Lingling Lu, Shanghai, China

Tetrahedron Lett.29,3951 (1988)

Enantioselective Hydrolysis of Dialkyl
3-Monosubstituted Glutarates with Pig Liver
Esterase : Structure-Optical Purity Relationships
Masahisa Nakada, Susumu Kobayashi, Shigeo Iwasaki[†], Shigenobu Okuda[†], and Masaji Ohno*
Faculty of Pharmaceutical Sciences, University of Tokyo, Hongo, Bunkyo-ku, Tokyo 113, Japan
[†]Institute of Applied Microbiology, University of Tokyo, Yayoi, Bunkyo-ku, Tokyo 113, Japan

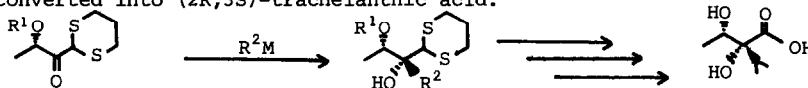


Tetrahedron Lett. 29, 3955 (1988)

DIASTEREOSPECIFIC ADDITION OF ORGANOMETALLICS TO (S)-2-
ALKOXY-1-(1,3-DITHIAN-2-YL)-1-PROPANONES AND ITS
APPLICATION TO THE SYNTHESIS OF (-)-TRACHELANTHIC ACID

Toshio SATO, Ryoji KATO, Kenji GOKYU, and Tamotsu FUJISAWA*
Chemistry Department of Resources, Mie University, Tsu, Mie 514, Japan

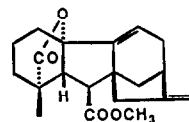
Nucleophilic addition of organometallics to (S)-2-alkoxy-1-(1,3-dithian-2-yl)-1-propanones gave diastereoselectively (1R,2S)-2-alkoxy-1-alkyl-1-(1,3-dithian-2-yl)-1-propanols which was converted into (2R,3S)-trachelanthic acid.

Tetrahedron Lett. 29, 3959 (1988)

THE METHYL ESTER OF A NEW GIBBERELLIN, GA73: THE PRINCIPAL ANTHERIDIUM IN LYGODIUM

JAPONICUM. Hisakazu Yamane^a, Yoshio Satoh, Kumiko Nohara, Masayoshi Nakayama, Noboru Murofushi^a, Nobutaka Takahashi, Kiyotoshi Takeno^a, Masaki Furuya^b, Mark Furber^c and Lewis N. Mander^c. Department of Agricultural Chemistry, The University of Tokyo, Bunkyo-ku, Tokyo 113, Japan; a. Laboratory of Horticultural Science, Tohoku University, Sendai 980, Japan; b. The Institute of Physical and Chemical Research, Wako-shi, Saitama 351-01, Japan; c. Research School of Chemistry, The Australian National University, G.P.O. Box 4, Canberra, A.C.T. 2601, Australia

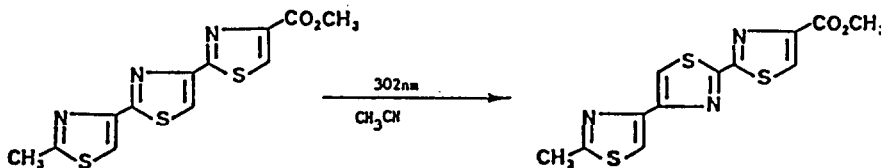
The principal antheridiogen in the fern Lygodium japonicum was isolated and characterized as the methyl ester of a new gibberellin, GA73.



GA73 methyl ester

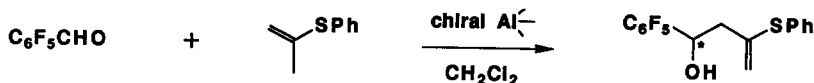
REMARKABLY HIGH SELECTIVITY IN PHOTOISOMERIZATION
OF TRITHIAZOLES

Isao Saito,* Takashi Morii, Satoru Mori, Kizashi Yamaguchi[†] and Teruo Matsuura
Department of Synthetic Chemistry, Faculty of Engineering, Kyoto University, Kyoto 606, Japan
[†]Department of Engineering Science, Osaka University, Toyonaka, Osaka 450, Japan

Tetrahedron Lett. 29, 3963 (1988)

ASYMMETRIC ENE REACTION CATALYZED BY
CHIRAL ORGANOALUMINUM REAGENT

Keiji Maruoka, Yorihisa Hoshino, Tadashi Shirasaka, and Hisashi Yamamoto*
Department of Applied Chemistry, Nagoya University, Chikusa, Nagoya 464-01, Japan



chiral organoaluminum reagent : 110 mol% 90% (88% ee)
20 mol%, MS 4A 88% (88% ee)

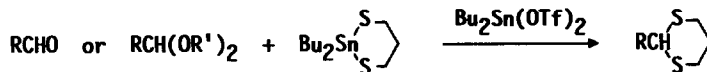
Tetrahedron Lett. 29, 3967 (1988)

Tetrahedron Lett. 29, 3971 (1988)

ACTIVATION AND SYNTHETIC APPLICATIONS OF THIOSTANNANES.
CONVERSION OF ALDEHYDES AND ACETALS INTO 1,3-DITHIANES
WITH HIGH CHEMODIFFERENTIATION

Tsuneo Sato, Enji Yoshida, Takamichi Kobayashi, Junzo Otera,* and Hitosi Nozaki
Department of Applied Chemistry, Okayama University of Science, Ridai-cho, Okayama 700, Japan

Novel method for transforming aldehydes and acetals into 1,3-dithianes has been achieved with the aid of organotin thioalkoxides and organotin triflates.

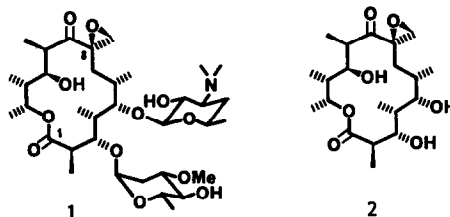


Tetrahedron Lett. 29, 3975 (1988)

SYNTHESIS OF OLEANDOMYCIN THROUGH THE INTACT AGLYCONE,
OLEANDOLIDE

Kuniaki Tatsuta,* Yoshiyuki Kobayashi, Hiroki Gunji,
and Hirokazu Masuda
Department of Applied Chemistry, Keio University
Hiyoshi, Kohoku, Yokohama 223, Japan

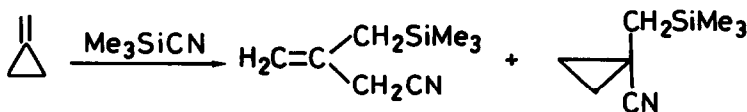
Oleandomycin (1) was led to oleandolide (2) through the 8-exo-methylene derivative, and was reconstructed from 2.



PALLADIUM- AND NICKEL-CATALYZED REACTION OF
METHYLENECYCLOPROPANES WITH TRIMETHYLSILYL
CYANIDE

Naoto Chatani,* Takumi Takeyasu, and Terukiyo Hanafusa
The Institute of Scientific and Industrial Research,
Osaka University, Ibaraki, Osaka 567, JAPAN

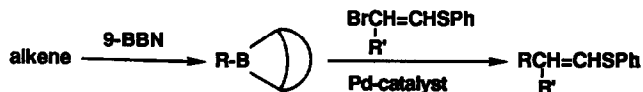
Tetrahedron Lett. 29, 3979 (1988)



A STEREOSELECTIVE ROUTE TO ALKENYL SULFIDES THROUGH THE
PALLADIUM-CATALYZED CROSS-COUPLING REACTION OF 9-ALKYL
-9-BBN WITH 1-BROMO-2-PHENYLTHIOETHENE OR (E)- AND (Z)-2-BROMO-1-PHENYLTHIO-1-ALKENES

Yukio Hoshino, Tatsuo Ishiyama, Norio Miyaura, and Akira Suzuki*
Department of Natural Science, Muroran Institute of Technology, Muroran 050 and Department of Applied
Chemistry, Faculty of Engineering, Hokkaido University, Sapporo 060, Japan

A general method for synthesis of alkenyl sulfides from alkenes via hydroboration-cross-coupling sequence is described.



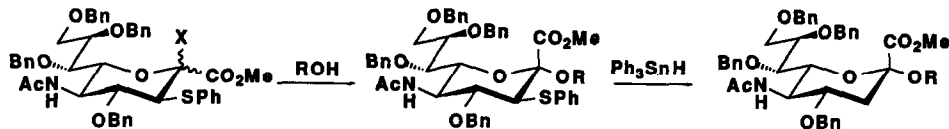
Tetrahedron Lett. 29, 3983 (1988)

Tetrahedron Lett. 29, 3987 (1988)

HIGHLY STEREOSELECTIVE GLYCOSYLATION OF N-ACETYLNEURAMINIC ACID AIDED BY A PHENYLTHIO SUBSTITUENT AS A STEREOCONTROLLING AUXILIARY
Yukishige Ito and Tomoya Ogawa

RIKEN (The Institute of Physical and Chemical Research), Wako-shi, Saitama, 351-01 Japan

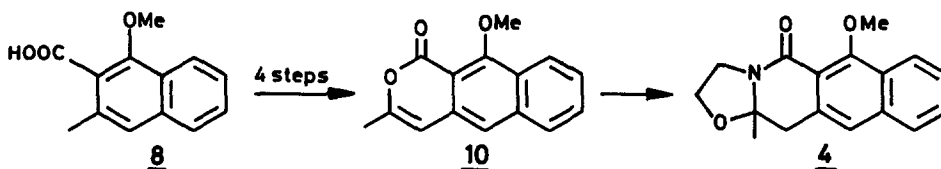
A novel approach to the stereoselective glycosylation of N-acetylneuraminic acid is described.



SYNTHETIC STUDIES ON CERVINOMYCIN
AN EFFICIENT SYNTHESIS OF RING ABCD OF CERVINOMYCIN

Tetrahedron Lett. 29, 3991 (1988)

A V Rama Rao*, K Kishta Reddy, J S Yadav and A K Singh
Regional Research Laboratory, Hyderabad 500 007, India

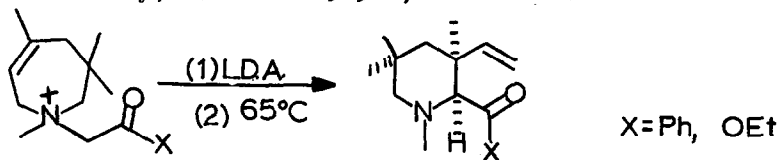


A novel method for the construction of ABCD portion of cervinomycin (4) from 8 is developed.

Stereoselective Route to N-Methyl-2,3-cis-Disubstituted Piperidines

Tetrahedron Lett. 29, 3993 (1988)

S.J. Neeson and P.J. Stevenson*, Department of Chemistry, David Keir Building
Queen's University, Belfast BT9 5AG, Northern Ireland.

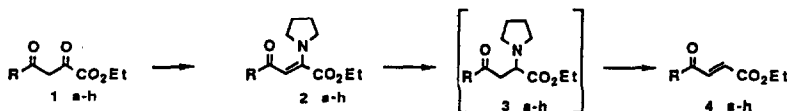


A CONVENIENT SYNTHESIS OF Y-OXO-ACRYLATES

Tetrahedron Lett. 29, 3997 (1988)

S. Manfredini, D. Simoni, V. Zanirato, A. Casolari
Dipartimento di Scienze Farmaceutiche, Università di Ferrara

Ethyl 2,4-dioxoalkanoates were chemoselectively manipulated to afford
Y-oxo-acrylate.

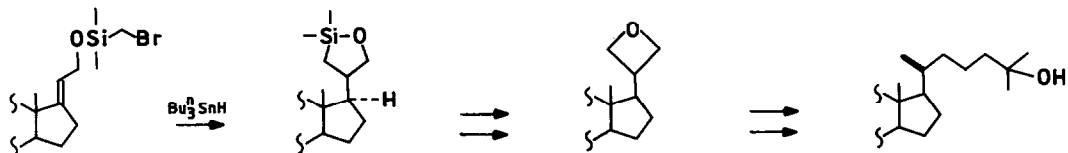


Tetrahedron Lett. 29, 4001 (1988)

A. Kurek-Tyrlik,^a J. Wicha^a and G. Snatzke^b

^a-Polish Academy of Sciences, ^b-Ruhr-Universität, Bochum

METHYLATION AND HYDROXYMETHYLATION INVOLVING FREE RADICALS. AN APPLICATION TO STEREOSELECTIVE CONSTRUCTION OF 20(S) STEROL SIDE-CHAIN

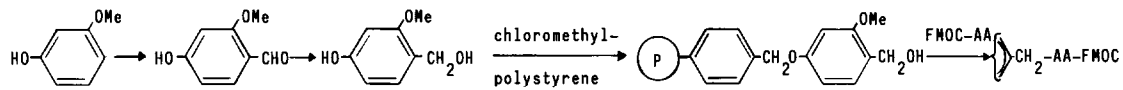


Tetrahedron Lett. 29, 4005 (1988)

A NEW VERY ACID-LABILE ANCHOR GROUP FOR THE SOLID PHASE SYNTHESIS OF FULLY PROTECTED FRAGMENTS

M. Mergler, R. Tanner, J. Gosteli, P. Grogg*

BACHEM AG, Hauptstrasse 144, 4416 Bubendorf/Switzerland

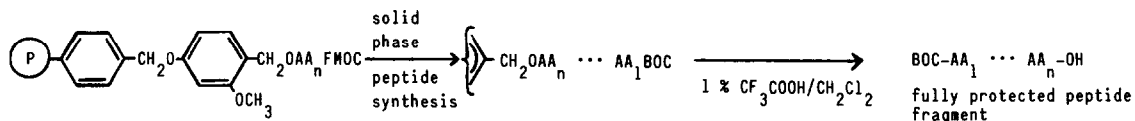


Tetrahedron Lett. 29, 4009 (1988)

SYNTHESIS OF FULLY PROTECTED PEPTIDE FRAGMENTS ON 2-METHOXY-4-ALKOXY-BENZYL ALCOHOL RESIN

M. Mergler, R. Nyfeler, R. Tanner, J. Gosteli, P. Grogg

BACHEM AG, Hauptstrasse 144, 4416 Bubendorf/Switzerland



Tetrahedron Lett. 29, 4013 (1988)

SYNTHESIS OF 1-(HYDROXYALKOXY)PYRIMIDINES, A NOVEL SERIES OF ACYCLIC NUCLEOSIDE ANALOGUES.

M.R. Barnden, L.J. Jennings and A. Parkin*

Beecham Pharmaceuticals Research Division, Great Burgh, Epsom, Surrey KT18 5XQ, U.K.

