

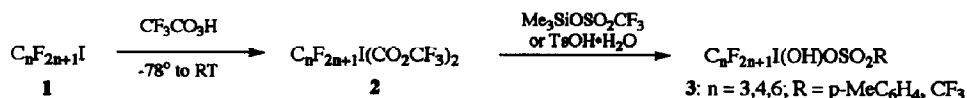
GRAPHICAL ABSTRACTS

Tetrahedron Letters, 1994, 35, 1809

[HYDROXY(SULFONYLOXY)IODO]PERFLUOROALKANES - NEW
HYPERVALENT IODINE SPECIES AND PROMISING REAGENTS
FOR ORGANIC SYNTHESIS.

Viktor V. Zhdkankin* and Chris Kuehl, Chemistry Department, University of Minnesota-Duluth, Duluth, Minnesota 55812 USA

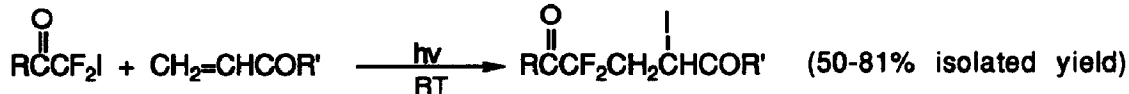
Perfluoroalkyliodoso sulfonates **3** can be prepared in two steps from the corresponding perfluoroalkyliodides **1** by oxidation with pertrifluoroacetic acid and subsequent reaction with TsOH·H₂O or Me₃SiOTf.



Tetrahedron Letters, 1994, 35, 1813

UV INITIATED ADDITION OF IODO-
DIFLUOROMETHYL KETONES TO

ELECTRON-DEFICIENT OLEFINS. Zai-Ming Qiu and Donald J. Burton*, Department of Chemistry, The University of Iowa, Iowa City, IA 52242, U.S.A.



R: Ph, n-C₄H₉, n-C₆H₁₃, ClCF₂; R': EtO, n-C₄H₉O, t-C₄H₉O, Me₂N

High yields of α,α-difluoro-γ-iodo-γ-(electron-withdrawing-group) substituted ketones were obtained by the reaction of iododifluoromethyl ketones with a series of electron-deficient alkenes under UV irradiation.

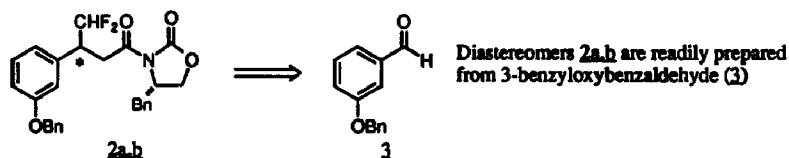
Tetrahedron Letters, 1994, 35, 1817

Fluorinated Amino Acids. Part 2: Synthesis of Diastereomeric

N-Acyloxazolidinone Precursors. Jeffrey S. Sabol* and Ian A. McDonald*

Marion Merrell Dow Research Institute, 2110 East Galbraith Rd, Cincinnati, OH, 45215,

SIBIA, 505 Coast Boulevard South, La Jolla, CA, 92037-4641.



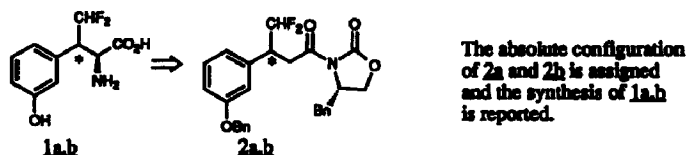
Tetrahedron Letters, 1994, 35, 1821

Fluorinated Amino Acids. Part 3: Synthesis of β-Difluoromethyl-

m-tyrosine. Jeffrey S. Sabol*, Nicholas W. Brake and Ian A. McDonald*

Marion Merrell Dow Research Institute, 2110 East Galbraith Rd, Cincinnati, OH, 45215,

SIBIA, 505 Coast Boulevard South, La Jolla, CA, 92037-4641.



TOTAL SYNTHESIS OF THE ETHANOL INDUCIBLE, PRO-INFLAMMATORY AUTACOID 3(S)-HYDROXY-LEUKOTRIENE B₄ (3-OH-LTB₄) AND ANALOGUES

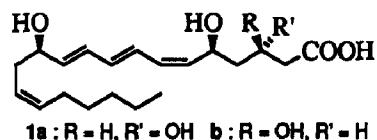
K. Chauhan¹, R.K. Bhatt¹, J.R. Falck^{*1}, J. H. Capdevila²

¹Depts. of Molecular Genetics/Pharmacology, UT Southwestern, Dallas, TX 75235;

²Depts. of Medicine/Biochemistry, Vanderbilt Univ. Med. School, Nashville, TN 37205

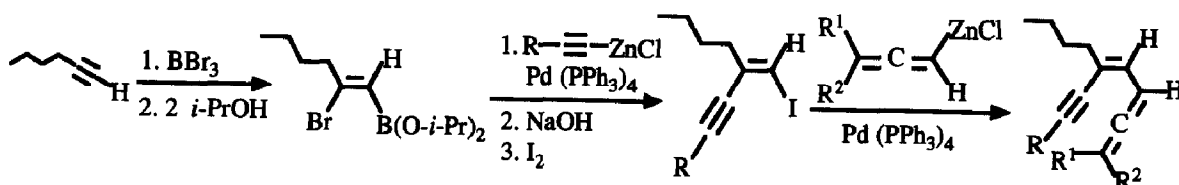
3(S)-Hydroxy-Leukotriene B₄ (1a), its 3(R)-epimer 1b, and a 14,15-acetylenic analogue were efficiently prepared via chelation-controlled reduction of ketone 12, obtained by acetylide addition to chiral β-hydroxylactones 7/9.

Tetrahedron Letters, 1994, 35, 1825



A CONVENIENT PROCEDURE FOR THE SYNTHESIS OF ENYNE-ALLENES. Kung K. Wang^{*} and Zhongguo Wang,

Department of Chemistry, West Virginia University, Morgantown, West Virginia 26506 USA

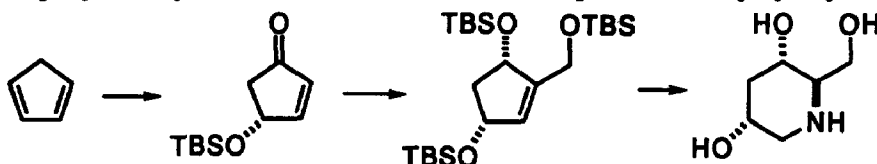


Tetrahedron Letters, 1994, 35, 1829

CHEMOENZYMATIC SYNTHESIS OF 1,3-DIDEOXY-NOJIRIMYCIN Carl R. Johnson,^{*} Adam Golebiowski, Matthew P.

Braun and Hari Sundram, Department of Chemistry, Wayne State University, Detroit MI 48202 USA

Cyclopentadiene was transformed via ¹O₂ cycloaddition, *Candida antarctica* lipase B asymmetric reduction, Pd(0)-mediated CO coupling, ozonolysis and reductive amination to enantiopure 1,3-dideoxynojirimycin.



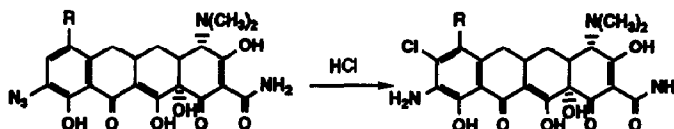
Tetrahedron Letters, 1994, 35, 1833

SYNTHESIS OF NOVEL TETRACYCLINE DERIVATIVES WITH SUBSTITUTION AT THE C-8 POSITION

Phaik-Eng Sum^{*}, Ving J. Lee, and Francis P. Tally

Infectious Diseases and Molecular Biology Research Section, Medical Research Division, American Cyanamid Company, Pearl River, New York 10965

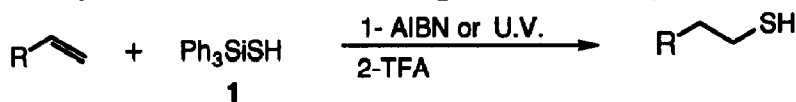
The C-8 functionalization of tetracycline derivatives via acid-catalyzed rearrangement of 7(or 9)azidotetracyclines is described. These compounds are the first to be prepared from an intact tetracycline nucleus.



Tetrahedron Letters, 1994, 35, 1835

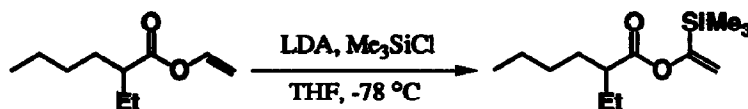
Free-Radical Addition to Olefins of an H₂S Equivalent:*Tetrahedron Letters, 1994, 35, 1837***Triphenylsilylanethiol.** Bruno Haché and Yves Gareau* Merck Frosst

Centre for Therapeutic Research, P.O. Box 1005, Pointe-Claire-Dorval, Québec, Canada H9R 4P8

The triphenylsilylthiyl radical generated thermally (AIBN) or photochemically in the presence of an olefin yields the anti-Markovnikov H₂S adduct after deprotection by trifluoroacetic acid**A Simple Route to Acylsilane Enol Esters from Enol Esters***Tetrahedron Letters, 1994, 35, 1841*

Stephen W. Wright Pfizer Central Research, Eastern Point Road, Groton, CT 06340

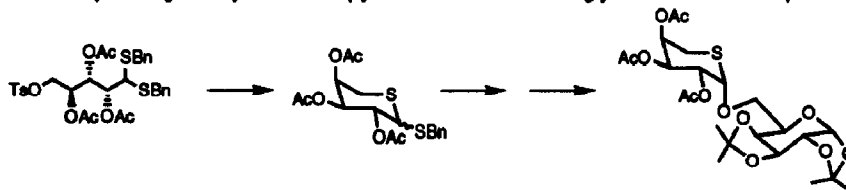
A new methodology is described for the synthesis of enol esters of acylsilanes, from readily available enol esters. A solution of LDA is added to a mixture of an enol ester (preferably sterically congested, with only one α -carboxyl proton, eg 2-ethylhexanoate) and a chlorosilane at -78 °C.

**Synthesis of 5-Thioaldopentopyranoside via Dithioacetal Rearrangement and Glycosidation to give Pseudodisaccharides.***Tetrahedron Letters, 1994, 35, 1843*

Carole Lepine, Caroline Roy and Daniel Delorme*

Merck Frosst Centre for Therapeutic Research P.O. Box 1005, Pointe Claire-Dorval, Quebec H9R 4P8, Canada.

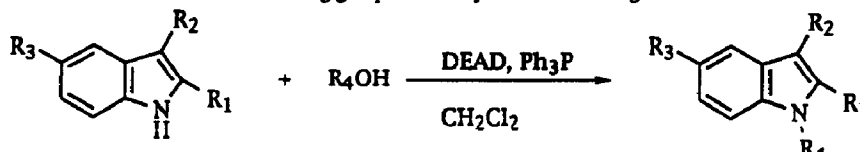
Rearrangement of protected 5-O-p-toluenesulfonyl-L-arabinose and D-xylose dibenzyl dithioacetal gave their corresponding benzyl 1,5-dithiopyranoside which after glycosidation led to pseudodisaccharide.

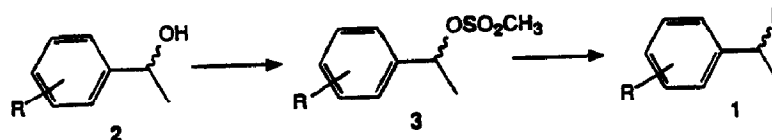
**N-ALKYLATION OF INDOLE RING USING MITSUNOBU REACTION***Tetrahedron Letters, 1994, 35, 1847*

Shripad S. Bhagwat* and Candido Gude

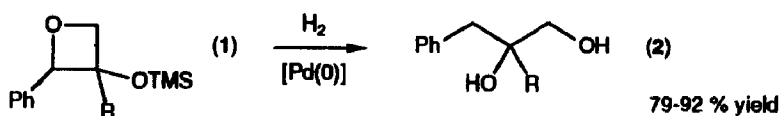
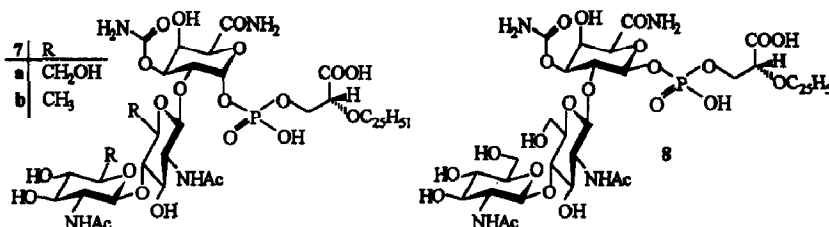
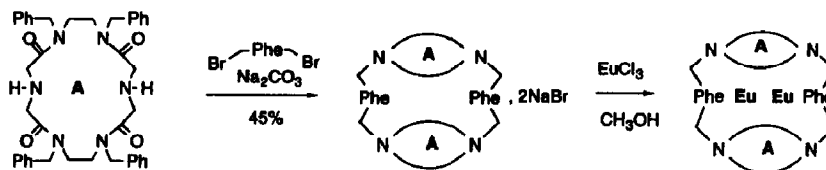
Research Department, CIBA-GEIGY Corporation, 556 Morris Avenue, Summit, New Jersey 07901

Indole rings substituted with two electron withdrawing groups were alkylated on the nitrogen under Mitsunobu reaction conditions.



SYNTHESIS OF OPTICALLY ACTIVE 1-FLUOROALKYL BENZENES*Tetrahedron Letters, 1994, 35, 1851*Elke Fritz-Langhals, Consortium für Elektrochemische Industrie GmbH,
Central Research Company of Wacker-Chemie GmbH, Zielstattstraße 20, D-81379 München, GermanyOptically active methanesulfonates **3** prepared from the corresponding alcohols **2** were transformed into optically active 1-fluoroalkyl benzenes **1** by use of cesium fluoride / *N*-methylformamide.**REGIOSELECTIVE CARBOHYDROXYLATION OF ENOL ETHERS BY A PHOTOCYCLOADDITION-HYDROGENATION SEQUENCE***Tetrahedron Letters, 1994, 35, 1855*

Thorsten Bach, Organisch-Chemisches Institut der Universität, Orleansring 23, D-48149 Münster, Germany

2-Phenyl-3-silyloxy-oxetanes **1** can be reductively cleaved by catalytic hydrogenation to yield the diols **2**.**Moenomycin-Type Transglycosylase Inhibitors:***Tetrahedron Letters, 1994, 35, 1859***Inhibiting Activity vs. Topology around the Phosphoric Acid Diester Group**Joachim Lüning^a, Astrid Markus^b,
Peter Weizel^{a*}^aFakultät für Chemie der Ruhr-
Universität
D-44780 Bochum (Germany)^bHoechst AG, D-65926 Frankfurt
(Germany)The correct configuration at C-1 of the uronamide carrying the phosphate group as in **7** is essential for antibiotic activity.**MACROBICYCLIC AND MACROTRICYCLIC TETRALACTAMS WITH 1,10-PHENANTHROLINE UNITS. DINUCLEAR Eu³⁺ CRYPTATE OF THE MACROTRICYCLIC LIGAND***Tetrahedron Letters, 1994, 35, 1863*Bernard Cathala, Louis Cazaux*, Claude Picard and Pierre Tisnès
Synthèse et physicochimie organique, Université Paul Sabatier, 31062 TOULOUSE (FRANCE)

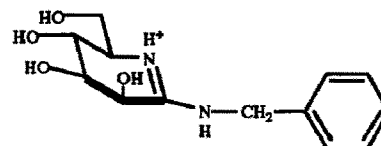
SYNTHESIS OF A BENZYLAMIDINE DERIVED FROM D-MANNOSE. A POTENT MANNOSIDASE INHIBITOR.

Tetrahedron Letters, 1994, 35, 1867

Yves Blériot, Arnaud Genre-Grandpierre and Charles Tellier*,

Laboratoire de RMN et Réactivité Chimique associé au CNRS. Faculté des Sciences et des Techniques.
2, rue de la Houssinière 44072 Nantes, France

The synthesis of a potent mannosidase inhibitor with a hydrophobic aglycone part is described and its effect on various glycosidases evaluated.



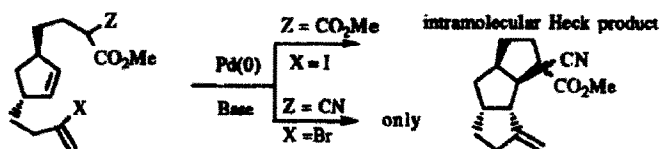
A GENERAL SOLUTION TO THE SYNTHESIS OF TRIQUINANES BY A PALLADIUM CATALYZED PROCESS.

Tetrahedron Letters, 1994, 35, 1871

P. Vittos, D. Bouyssi, C. Traversa, J. Gore and G. Balme*.

Laboratoire de Chimie Organique 1, Université Claude Bernard, ESCIL, 43 bd du 11 Novembre 1918, 69622 Villeurbanne Cédex.

Two structural factors (nature of the nucleophile and of the vinylic halide) play an important role in this generalization.

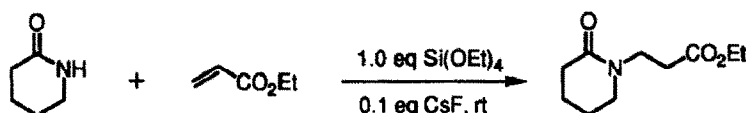


Conjugate Addition of Amides to α,β -Unsaturated Esters by CsF-Si(OEt)₄ System

Tetrahedron Letters, 1994, 35, 1875

Kyo Han Ahn* and Seok Jong Lee

Department of Chemistry, POSTECH, San 31 Hyoja Dong, Pohang 790-784, Republic of Korea

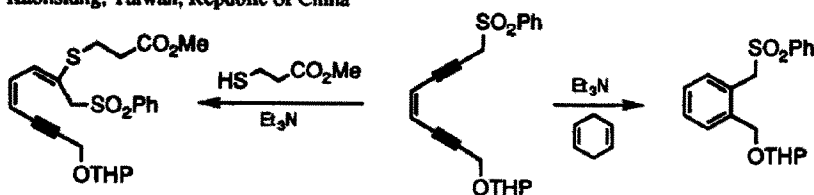


BIRADICAL FORMATION FROM MOLECULES WITH (Z)-7-SULFONYL-3-HEXEN-1,5-DIYNE FUNCTIONALITIES

Tetrahedron Letters, 1994, 35, 1879

Ming-Jung Wu^{a,b,*}, Chi-Fong Lin^b, Jiun-Sheng Wu^a, and Huey-Ting Chen^b

a) School of Chemistry, b) Graduate Institute of Pharmaceutical Sciences, Kaohsiung Medical College, Kaohsiung, Taiwan, Republic of China

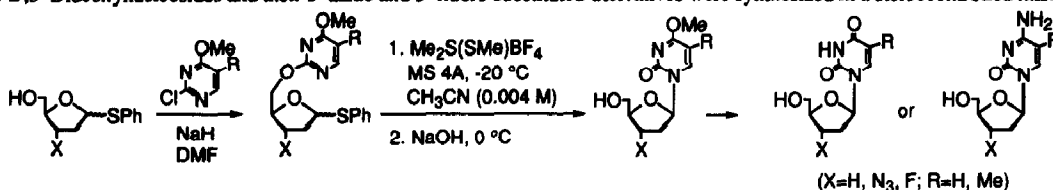


Stereocontrolled Synthesis of Pyrimidine 2',3'-Dideoxy- β -nucleosides by Intramolecular Glycosylation

Keiko Sujino and Hideyuki Sugimura*

The Noguchi Institute, 1-8-1, Kaga, Itabashi-ku, Tokyo 173, Japan

β -2',3'-Dideoxynucleosides and their 3'-azido and 3'-fluoro substituted derivatives were synthesized in a stereocontrolled manner.



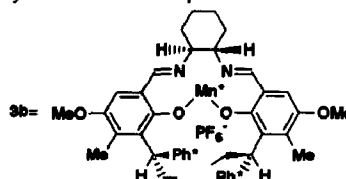
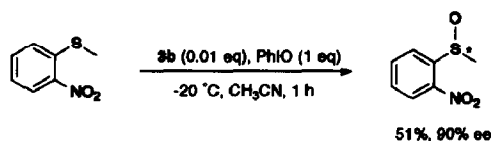
Tetrahedron Letters, 1994, 35, 1883

ASYMMETRIC OXIDATION OF SULFIDES USING (SALEN)MANGANESE(III) COMPLEX AS A CATALYST

Kenji Noda, Naoki Hosoya, Koichi Yanai, Ryo Irie, and Tsutomu Katsuki*

Department of Chemistry, Faculty of Science, Kyushu University 33, Hakozaki, Higashi-ku, Fukuoka 812, Japan

Chiral (salen)manganese(III) complex (**3b**) was found to show high asymmetric induction up to 90% ee in catalytic asymmetric oxidation of sulfides.

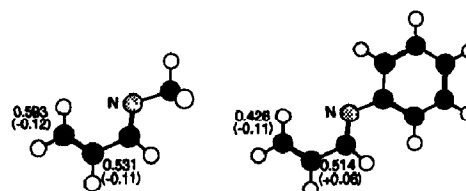


Tetrahedron Letters, 1994, 35, 1887

ORIGIN OF REGIOSELECTIVITY IN ELECTROPHILIC REACTION OF AMBIDENT ENALDIMINES

K. Tomioka,* T. Okamoto, M. Kanai, and H. Yamataka, The Institute of Scientific and Industrial Research, Osaka University, Ibaraki, Osaka 567, Japan

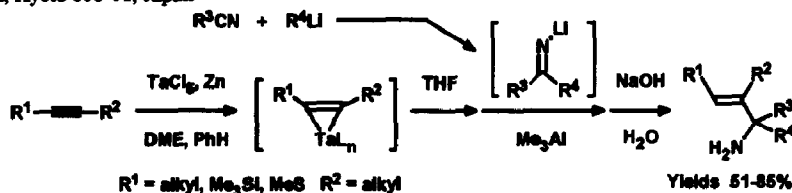
The relative magnitude of LUMO coefficients clearly rationalizes the substituent-dependent inversion of regioselectivity in nucleophilic addition to ambident alkyl- and arylimines of α,β -unsaturated aldehydes.



Tetrahedron Letters, 1994, 35, 1891

STEREOSELECTIVE PREPARATION OF PRIMARY (*E*)-ALLYLIC AMINES BY THE REACTION OF TANTALUM-ALKYNE COMPLEXES WITH METALLO-IMINES.

K. Takai,* H. Odaka, Y. Kataoka, K. Utimoto,* Division of Material Chemistry, Faculty of Engineering, Kyoto University, Yoshida, Kyoto 606-01, Japan



Primary (*E*)-allylic amines having adjacent tertiary carbons are produced from three components, acetylenes, nitriles, and organolithium compounds.

Tetrahedron Letters, 1994, 35, 1893

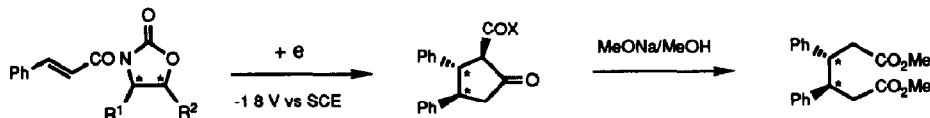
Enantioselective Synthesis of Dimethyl 3,4-Diphenyladipate by Electroreductive Hydrocoupling of Chiral *N-trans*-Cinnamoyl-2-oxazolidones

Tetrahedron Letters, 1994, 35, 1897

Naoki Kise,* Mitsuaki Echigo, and Tatsuya Shono

Division of Synthetic Chemistry and Biological Chemistry, Graduate School of Engineering, Kyoto University, Yoshida, Sakyo, Kyoto 606-01, Japan

Dimethyl (3*R*,4*R*)- and (3*S*,4*S*)-diphenyladipate were synthesized enantioselectively by electroreductive intermolecular hydrocoupling of chiral *N-trans*-cinnamoyl-2-oxazolidones in acetonitrile and subsequent methanolysis.



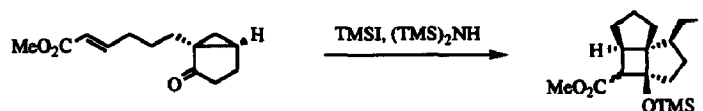
Construction of Polycyclic Ring Systems Fused to Cyclobutane by Sequential Three Reactions, Ring Opening of Cyclopropane-Michael-Aldol Reaction Sequence

Tetrahedron Letters, 1994, 35, 1901

Masataka Ihara, Takahiko Taniguchi, and Keiichiro Fukumoto*

Pharmaceutical Institute, Tohoku University, Aobayama, Sendai 980, Japan

Polycyclic cyclobutanes were synthesized from cyclopropyl ketones by the treatment with TMSI in the presence of (TMS)₂NH.

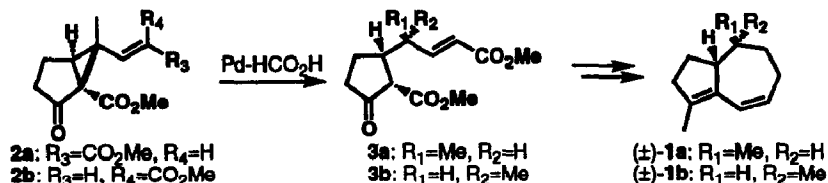


Stereoselective Synthesis of (±)-Clavukerin A and (±)-Isoclavukerin A Based on Palladium-catalyzed Reductive Cleavage of Alkenylcyclopropanes with Formic Acid.

Tetrahedron Letters, 1994, 35, 1905

Isao Shimizu* and Tomoko Ishikawa, Department of Applied Chemistry, School of Science and Engineering, Waseda University, Ookubo 3-4-1, Shinjuku-ku, Tokyo 169, Japan.

(±)-Clavukerin A [(±)-1a] and (±)-Isoclavukerin A [(±)-1b] were synthesized stereoselectively utilizing stereospecific palladium-catalyzed hydrogenolysis of alkenylcyclopropanes with formic acid.

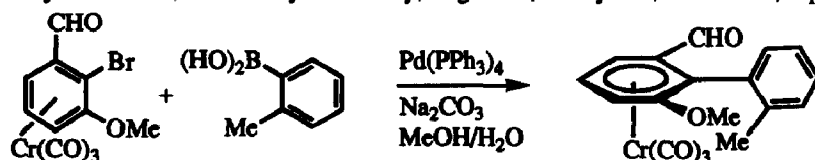


Mono-Cr(CO)₃ Complexes of Biphenyl Compounds: Cross-Coupling Reactions of (η⁶-Arene)chromium Complexes with Arylmetals

Tetrahedron Letters, 1994, 35, 1909

M. Uemura*, H. Nishimura, K. Kamikawa, K. Nakayama, Y. Hayashi

Faculty of Science, Osaka City University, Sugimoto, Sumiyoshi, Osaka 558, Japan

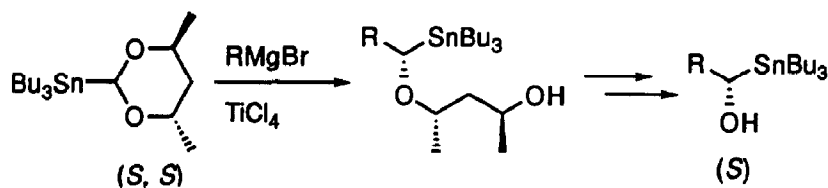


A PRACTICAL SYNTHETIC METHOD FOR ENANTIO-ENRICHED α -HYDROXYSTANNANES.

Tetrahedron Letters, 1994, 35, 1913

Katsuhiko Tomooka, Tatsuya Igarashi, and Takeshi Nakai*

Department of Chemical Technology, Tokyo Institute of Technology, Meguro-ku, Tokyo 152, Japan

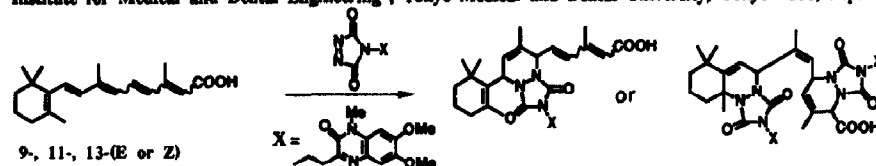


REACTION OF GEOMETRICAL ISOMERS OF RETINOIC ACID WITH 1,2,4-TRIAZOLINE-3,5-DIONE HAVING FLUORESCENT CHROMOPHORE

Tetrahedron Letters, 1994, 35, 1917

Masato Shimizu, Kyoko Yaguchi, Yukiko Iwasaki and Sachiko Yamada*

Institute for Medical and Dental Engineering, Tokyo Medical and Dental University, Tokyo 101, Japan

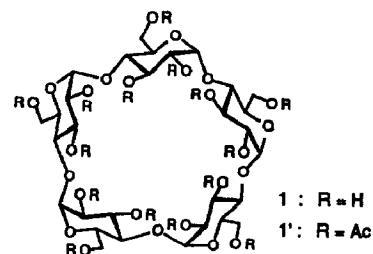


The Stereoselective Synthesis of Cyclomaltopentaose. A Novel Cyclodextrin Homologue with D.P. Five.

Tetrahedron Letters, 1994, 35, 1921

Toshio Nakagawa*, Koji Ueno, Mariko Kashiwa, and Junko Watanabe
Department of Chemistry, Yokohama City University,
22-2 Seto, Kanazawa-ku, Yokohama 236, Japan.

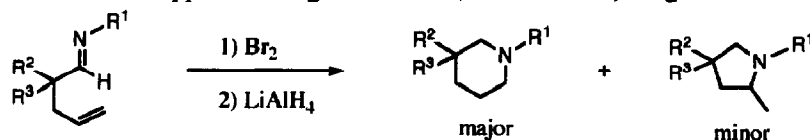
The title compound (1) and its per-O-acetate (1') were firstly synthesized by successive, stereoselective glycosidations and cyclization, using participation of the N-phenylcarbamoyl group at O-6 of glycosyl donors.



ELECTROPHILE-INDUCED CYCLIZATION OF γ,δ -ALKENYLIMINES AS A SYNTHETIC ROUTE TO PYRROLIDINES AND PIPERIDINES

Tetrahedron Letters, 1994, 35, 1925

N. De Kimpe, M. Boelens, J. Piqueur, J. Baele, Department of Organic Chemistry, University of Gent, Faculty of Agricultural and Applied Biological Sciences, B-9000 Gent, Belgium

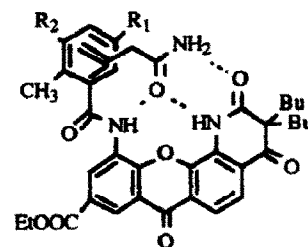


CLEFT TYPE RECEPTORS WITH CATALYTIC ACTIVITY IN AMIDE DEUTERATION

Meroedes Crego, César Raposo, M^a Luisa Mussous,
M^a Cruz Caballero and Joaquín R. Morán.
Departamento de Química Orgánica, Universidad de Salamanca, 37008 Salamanca, Spain.

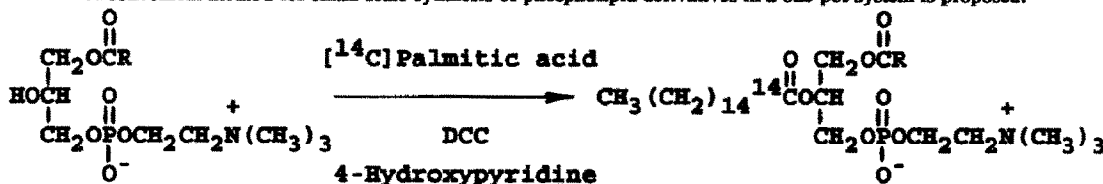
Three amide receptors with a significant catalytic activity in α -deuteration have been prepared.

receptors	R ₁	R ₂
1	NO ₂	NO ₂
3	SO ₂ NHBu	H
5	SO ₂ NHBu	NO ₂


A NOVEL CATALYST FOR O-ACYLATION IN LIPID CHEMISTRY

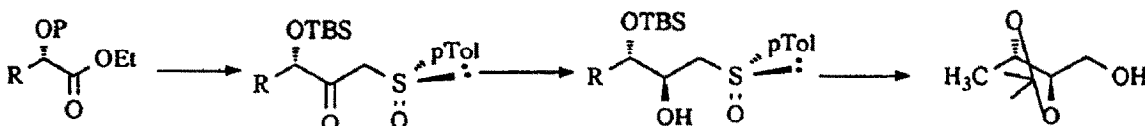
Elena L. Vodovozova and Julian G. Molotkovsky
Shemyakin & Ovchinnikov Institute of Bioorganic Chemistry
Russian Academy of Sciences, Miklukho-Maklaya 16/10, Moscow 117871

A convenient method for small-scale synthesis of phospholipid derivatives in a one-pot system is proposed.


ASYMMETRIC SYNTHESIS MONITORED BY CHIRAL SULFOXIDES: SYN AND ANTI FUNCTIONALIZED 1,2-DIOLS FROM α -HYDROXY-ESTERS.

Guy Solladié*, Antonio Almarío

Ecole Européenne des Hautes Etudes des Industries Chimiques, 1 rue B. Pascal, F-67008-Strasbourg, France.



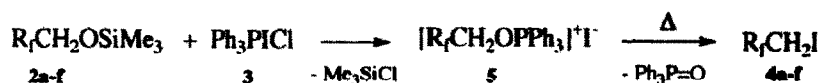
The reduction of β -keto δ -alkoxysulfoxides made from chiral α -hydroxyesters, afforded after desulfurization optically active syn and anti 1,2-diols

1-IODO-POLYFLUOROALKANES FROM POLYFLUOROALKOXY TRIMETHYLSILANES AND IODOCHLOROTRIPHENYLPHOSPHORANE.

Vittorio Montanari^a, Silvio Quici^b, Giuseppe Resnati^a.

a) CNR, Centro Studio Sostanze Organiche Naturali, Politecnico, and b) CNR, Centro Studio Sintesi e Stereochimica Speciali Sistemi Organici, Milano, Italy.

The title compounds **4** are obtained pure by a new, simple method.



FULLERENE C₆₀ AND C₇₀ PHOTO SENSITIZED OXYGENATION OF OLEFINS

Michael Orfanopoulos* and Spiros Kambourakis

Department of Chemistry, University of Crete, 71110 Iraklion, Crete, Greece.

