

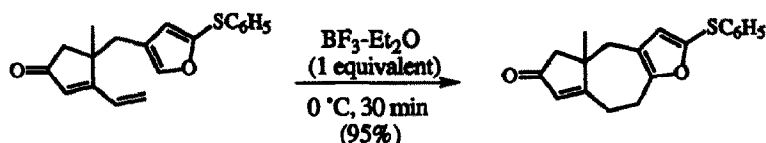
GRAPHICAL ABSTRACTS

Cyclialkylations of Conjugated Dienones with Furans.

G. Majetich, Y. Zhang and Shuang Liu
The Department of Chemistry, The University
of Georgia, Athens, Georgia 30602.

Tetrahedron Letters, 1994, 35, 4887

Fused tricyclic compounds with the salient features of the guaianolides and the pseudoguaianolides were prepared using a furan-based cyclialkylation strategy.



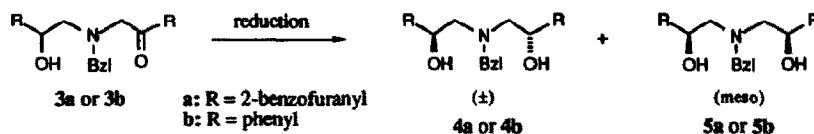
Remote Acyclic Diastereocontrol Involving a Bicyclic Metal

Chelate. High 1,5 Asymmetric Induction in the Hydride Reduction of δ -Hydroxy Ketones

Han-Cheng Zhang, Michael J. Costanzo, Bruce E. Maryanoff*, Medicinal Chemistry Department, The R. W. Johnson Pharmaceutical Research Institute, Spring House, Pennsylvania 19477 USA

Tetrahedron Letters, 1994, 35, 4891

Reduction of **3a** with *R*-Alpine-Hydride (**7**) in THF affords a preponderance of *anti* diastereomer **4a** (*anti:syn* = 7:1). Reduction of **3b** with **7** or $\text{Zn}(\text{BH}_4)_2$, in CH_2Cl_2 , affords impressive *anti* stereoselectivity (*anti:syn* = 10:1 or 13:1, respectively). A chelation-controlled mechanism involving a bicyclic metal complex is proposed.

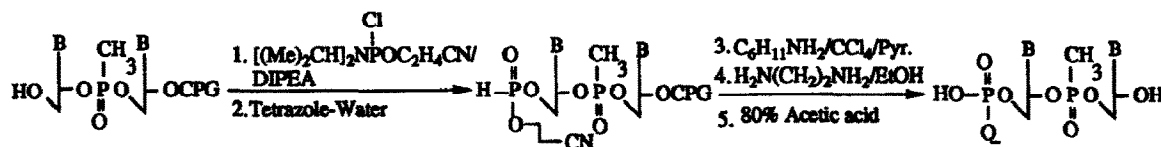


SOLID-PHASE SYNTHESIS OF OLIGONUCLEOSIDE METHYLPHOSPHONATE 5'-PHOSPHATES.

Parshotam Bhan, Dyad Pharmaceutical Corp., 7101 Riverwood Drive, Columbia, MD 21046, USA.

Tetrahedron Letters, 1994, 35, 4895

A method for the chemical 5'-phosphorylation of oligonucleoside methylphosphonates on solid support is described

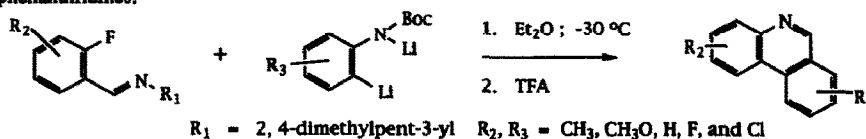


SNAr REACTIONS OF BENZALDIMINES: A CONCISE SYNTHESIS OF SUBSTITUTED PHENANTHRIDINES.

Deborah C. Reuter,* Lee A. Flippin,* Joel McIntosh, Joan M. Caroon and Jeff Hamaker, Institute of Organic Chemistry, Syntex Discovery Research, Palo Alto, CA 94304

Tetrahedron Letters, 1994, 35, 4899

SNAr addition of dilithiated *N*-Boc-anilines and *o*-fluorobenzaldimines, followed by mild hydrolysis, yields a series of substituted phenanthridines.

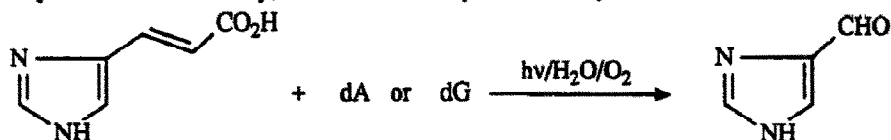


UROCANIC ACID PHOTOBIOLOGY. PURINE-ASSISTED PHOTOOXIDATION TO 1H-IMIDAZOLE-4(5)-CARBOXALDEHYDE

Tetrahedron Letters, 1994, 35, 4903

Taj Mohammad, Annette Kasper and Harry Morrison*

Department of Chemistry, Purdue University, West Lafayette, IN 47907-1393

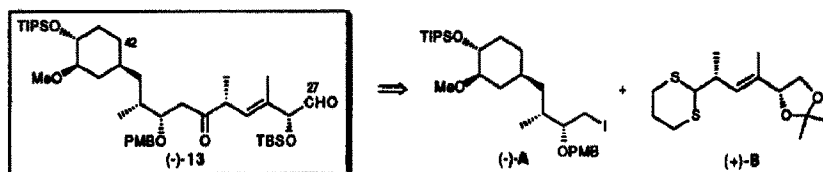


RAPAMYCIN SYNTHETIC STUDIES. 1. CONSTRUCTION OF THE C(27)-C(42) SUBUNIT

Tetrahedron Letters, 1994, 35, 4907

Amos B. Smith, III,* Stephen M. Condon, John A. McCauley, James W. Leahy, Johnnie L. Leazer, Jr., and Robert E. Maleczka, Jr. Department of Chemistry, Laboratory for Research on the Structure of Matter, and Monell Chemical Senses Center, University of Pennsylvania, Philadelphia, Pennsylvania 19104, U.S.A.

A convergent synthetic approach to the C(27)-C(42) fragment of the immunosuppressive macrocycle rapamycin is described.

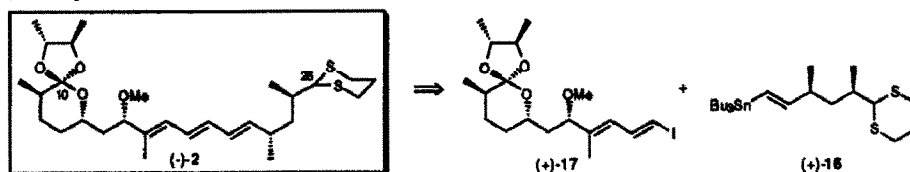


RAPAMYCIN SYNTHETIC STUDIES. 2. ELABORATION OF THE C(10)-C(26) PERIMETER

Tetrahedron Letters, 1994, 35, 4911

Amos B. Smith, III,* Robert E. Maleczka, Jr., Johnnie L. Leazer, Jr., James W. Leahy, John A. McCauley, and Stephen M. Condon Department of Chemistry, Laboratory for Research on the Structure of Matter, and Monell Chemical Senses Center, University of Pennsylvania, Philadelphia, Pennsylvania 19104, U.S.A.

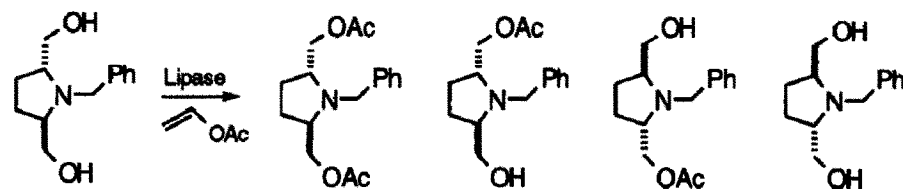
The C(10)-C(26) triene subunit of the potent immunomodulator rapamycin has been constructed.



Synthesis of Both Enantiomers of C₂ Symmetric *trans*-2,5-Bis(hydroxymethyl)pyrrolidine. Lipase Mediated Sequential Kinetic Resolutions

Tetrahedron Letters, 1994, 35, 4915

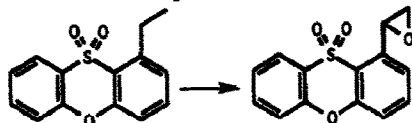
Mukund P. Sibi* and JianLiang Lu, Department of Chemistry, North Dakota State University, Fargo, North Dakota 58105-5516



Metabolite Structure Elucidation Using NMR Micro-/Nano-detection
John P. Shockcor, Robert M. Wurm, Ivin S. Silver, Ronald C. Crouch
and Gary E. Martin, Burroughs Wellcome Co., Research Triangle Park, NC 27709 USA

Tetrahedron Letters, 1994, 35, 4919

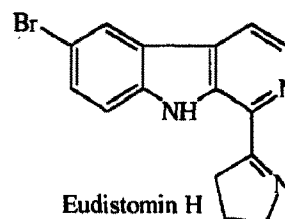
The structure of the epoxide of 1-ethyl-phenoxathiin 10,10-dioxide was elucidated using a combination of 500 MHz homo- and heteronuclear NMR techniques. The natural abundance ^{13}C reference spectrum of the metabolite was obtained on a 30 μg sample (0.07 μMoles).



Biosynthetic Studies of Eudistomin H in the Tunicate *Eudistoma olivaceum*. Guo Q. Shen and Bill J. Baker,* Department of Chemistry, Florida Institute of Technology, 150 W. University Blvd., Melbourne, Florida 32901

Tetrahedron Letters, 1994, 35, 4923

The origin of eudistomin H in the Floridian tunicate *Eudistoma olivaceum* has been investigated by *in vivo* techniques. 5-Bromotryptophan and 5-bromotryptamine were both utilized by the tunicate to biosynthesize this antibiotic.

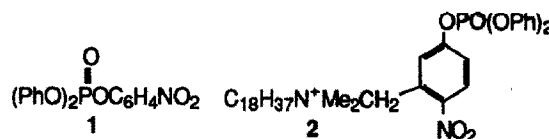


THE REACTIVITY OF A SURFACTANT-BOUND MICELLAR

PHOSPHOTRIESTER. A. Kotchevar, R.A. Moss, P. Scrimin, P. Tecilla, and H. Zhang, Department of Chemistry, Rutgers University, New Brunswick, NJ 08903, USA, and Dipartimento di Chimica Organica, Università degli Studi di Padova, Via Marzolo 1, 35131 Padova, Italy.

Tetrahedron Letters, 1994, 35, 4927

The covalently bound substrate-surfactant 2 is more reactive toward iodosocarbonylate and copper metallomicellar catalysts than the parent substrate 1 in aqueous cetyltrimethylammonium ion micelles.

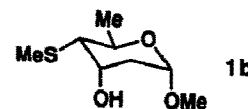


A STEREOCHEMICALLY GENERAL SYNTHESIS OF METHYL 2,4,6-TRIDEOXY-4-METHYLTHIO- α -D-RIBO-PYRANOSIDE, THE THIO SUGAR OF ESPERAMICIN A₁

Tetrahedron Letters, 1994, 35, 4931

W. R. Roush* and Darin Gustin, Department of Chemistry
Indiana University, Bloomington, IN 47405

A stereochemically general synthesis of methyl 2,4,6-trideoxy-4-methylthio- α -D-ribo-pyranoside (**1b**) is described. The synthesis involves the neighboring group assisted delivery of a sulfur nucleophile to C(5) of an epoxyalcohol via aniline promoted cyclization of the corresponding 2,3-epoxy thioimidazolide derivative.



ASYMMETRIC SYNTHESIS OF THE HYDROXYLAMINO SUGAR OF CALICHEAMICIN

Tetrahedron Letters, 1994, 35, 4935

W. R. Roush* and B. C. Follows, Department of Chemistry
Indiana University, Bloomington, IN 47405

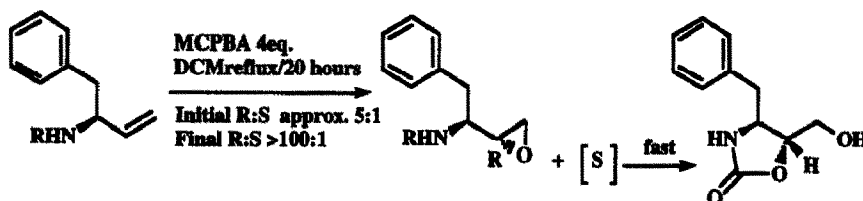
A stereochemically general procedure for the conversion of 2,3-epoxyalcohols to *N*-alkoxyoxazolidinones via the DBU promoted cyclizations of 2,3-epoxy-*N*-alkoxyurethanes has been developed and applied to the first asymmetric synthesis of the calicheamicin hydroxylamino sugar, **7**.



STERESELECTIVE SYNTHESIS OF PROTECTED AMINO ALKYL EPOXIDES.

Tetrahedron Letters, 1994, 35, 4939

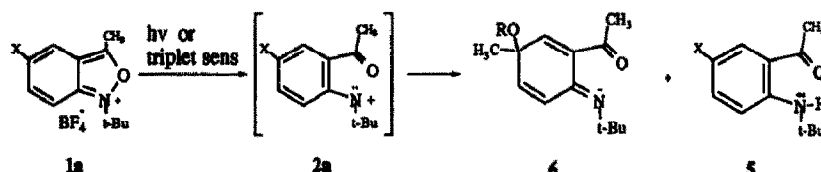
Sergio Romeo and Daniel H. Rich*, School of Pharmacy and Department of Chemistry,
University of Wisconsin-Madison, 425 N. Charter St., Madison, WI 53706.



Photogenerated Nitrenium Ions: Singlet and Triplet State Reactions of *tert*-Butyl-(2-Acetyl-4-Methyl)Phenyl Nitrenium Ion.

Tetrahedron Letters, 1994, 35, 4943

Rebecca J. Robbins and Daniel E. Falvey* Department of Chemistry and Biochemistry, University of Maryland, College Park, MD 20742



Irradiation of 5-methyl-3-*N*-*tert*-butyl-2,1-benzisoxazolium tetrafluoroborate (**1a**) gives nitrenium ion **2a** which gives stable products **5** and **6** depending on its spin state.

ONE-STEP CONVERSION OF ESTERS TO ACYL AZIDES USING DIETHYLALUMINUM AZIDE

Tetrahedron Letters, 1994, 35, 4947

Vireah H. Rawal* and Hua M. Zhong

Department of Chemistry, The Ohio State University, Columbus, Ohio 43210.

Diethylaluminum azide, prepared from either sodium azide and diethylaluminum chloride or hydrazoic acid and triethylaluminum, reacts with esters to yield acyl azides in one step.

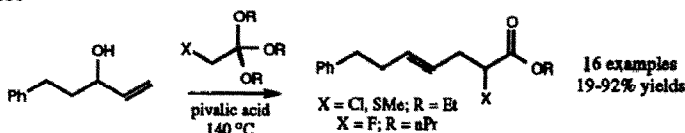


On the Utility of α -Heteroatom Substituted Orthoesters in the Johnson Claisen Rearrangement

Tetrahedron Letters, 1994, 35, 4951

Todd R. Elworthy, David J. Morgans, Jr., Wylie S. Palmer, David B. Repke, David B. Smith*, and Ann Marie Waltos

Institute of Organic Chemistry
Syntex Discovery Research
3401 Hillview Avenue
Palo Alto, CA 94304

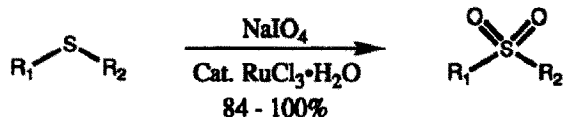


α -Heteroatom substituted orthoesters were found to undergo the Johnson Claisen rearrangement.

An Efficient Method for the Oxidation of Sulfides to Sulfoxes. Weiguo Su, Department of Medicinal Chemistry, Central Research Division, Pfizer Inc., Groton, CT 06340

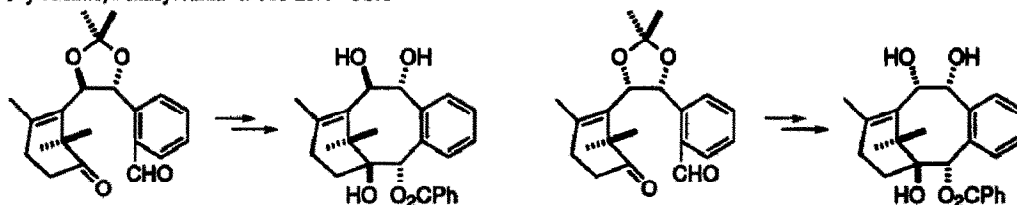
Tetrahedron Letters, 1994, 35, 4955

A useful reagent for the oxidation of highly unreactive sulfides to sulfoxes is described.



PINACOL CLOSURE OF OXYGENATED TAXANE SKELETA AT C-1-C-2 WITH STEREOINDUCTION BY OXYGEN SUBSTITUENTS AT C-9 AND C-10. Charles S. Swindell*, Weiming Fan, and Peter G. Klimko, Department of Chemistry, Bryn Mawr College, 101 North Merion Avenue, Bryn Mawr, Pennsylvania 19010-2899 USA

Tetrahedron Letters, 1994, 35, 4959

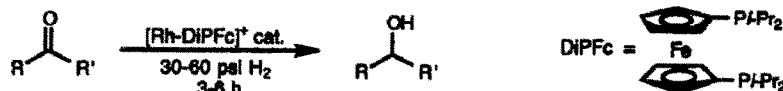


EFFICIENT RHODIUM-CATALYZED HYDROGENATION OF ALDEHYDES AND KETONES

Tetrahedron Letters, 1994, 35, 4963

Mark J. Burk*, T. Gregory P. Harper, Jeffrey R. Lee, Christopher Kalberg
Department of Chemistry, Duke University, P.M. Gross Chemical Laboratory, Durham, NC 27706

Aldehydes and ketones are hydrogenated under mild conditions using the cationic Rh-DIPFc catalyst.



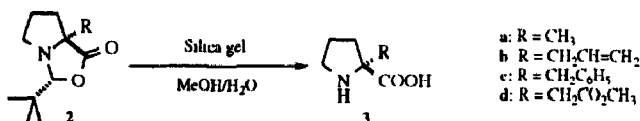
**An Improved Method of Oxazolidinone Hydrolysis
in the Asymmetric Synthesis of α -Alkylprolines**

Tetrahedron Letters, 1994, 35, 4967

Michael J. Genin, Paul W. Baures and Rodney L. Johnson*

Department of Medicinal Chemistry, University of Minnesota, 308 Harvard Street, S.E., Minneapolis, MN 55455

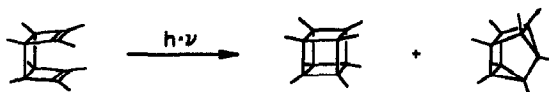
An improvement in Seebach's method for the synthesis of α -alkylprolines is reported wherein the hydrolysis of the chiral oxazolidinone **2** is performed on a suspension of silica gel in MeOH/H₂O.



**Generation of Octamethylcuneane and
Octamethylcubane from *syn*-Octamethyl-
tricyclo[4.2.0.0^{2,5}]octa-3,7-diene.**

Tetrahedron Letters, 1994, 35, 4969

Rolf Gleiter* and Stefan Brand, Organisch-Chemisches Institut der
Universität Heidelberg, Im Neuenheimer Feld 270, D 69120 Heidelberg,
Germany.

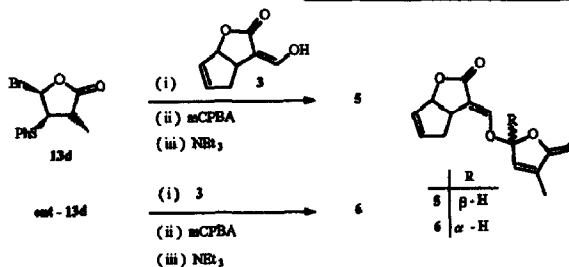


**Strigol Synthetic Studies: The First Synthetic Approach that
Allows Control of C-2' Configuration**

Tetrahedron Letters, 1994, 35, 4973

K. Frischmuth, A. Marx,
T. Petrowitsch, U. Wagner,
K. Koerner, S. Zimmermann,
H. Meuer, W. S. Sheldrick,
and P. Welzel*

Fakultät für Chemie
der Ruhr-Universität,
44780 Bochum (Germany)

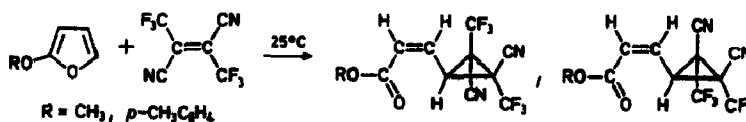


**DONOR-SUBSTITUTED FURANS AND 1,2-BIS(TRIFLUOROMETHYL)-
ETHYLENE-1,2-DICARBONITRILE: A NOVEL REARRANGEMENT AND
ITS STERIC COURSE**

Tetrahedron Letters, 1994, 35, 4977

G. Urrutia-Desmaison, G. Mloston, and R. Huisgen, Institut für Organische Chemie der Universität,
Karlstr. 23, D-80333 München, Germany

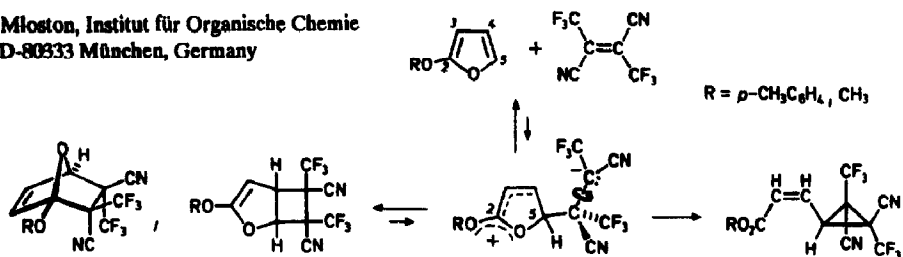
Simultaneous opening of the furan ring
and closure of the cyclopropane ring are
interpreted with a zwitterion resulting
from electrophilic attack of the acceptor
olefin at the 5-position of the donor furan.



DONOR-SUBSTITUTED FURANS AND 1,2-BIS(TRIFLUOROMETHYL)-ETHYLENE-1,2-DICARBONITRILE: THE HIDDEN CYCLOADDITIONS

Tetrahedron Letters, 1994, 35, 4981

Rolf Huisgen and Grzegorz Młoston, Institut für Organische Chemie der Universität, Karlstr. 23, D-80333 München, Germany

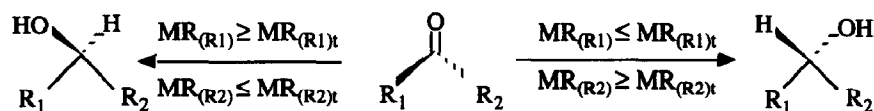


STRUCTURE-ENANTIOSELECTIVITY RELATIONSHIPS USING NEURAL NETWORKS FOR THE REDUCTION OF CARBONYL COMPOUNDS WITH BAKER'S YEAST.

Tetrahedron Letters, 1994, 35, 4985

D. Zakarya^{a,*}, L. Farhaoui^b and S. Fkih-Tetouani^b

a)-Faculté des Sciences et Techniques, B.P. 146, Mohammedia, Maroc. b)- Laboratoire de Chimie des Plantes et de synthèse Organique et Bioorganique, Faculté des Sciences, Université Mohamed V, Rabat-Maroc



The rules were derived from a Neural Network model. $MR(R_2)_t = MR(R_1)_t$: threshold value; MR molar refraction.

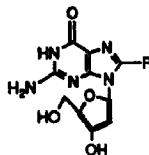
HYDROLYSIS OF 2'-DEOXYPURINE NUCLEOSIDES. THE EFFECT OF SUBSTITUTION AT THE C-8 POSITION.

Tetrahedron Letters, 1994, 35, 4989

Ali LAAYOUN, Jean-Luc DECOUT, and Jean LHOMME*

LEDSS, URA CNRS D0 332, Université J. Fourier, BP 53, 38041 GRENOBLE Cedex 9, FRANCE

Hydrolytic N-glycosidic bond cleavage is increased by electron-withdrawing substituents at C-8 in a series of 2'-deoxypurine nucleosides.



In particular:
 $k_R : SO_2CH_3 / k_R : SCH_3 = 7 \times 10^3$

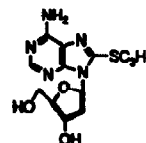
HYDROLYSIS OF OLIGONUCLEOTIDES CONTAINING 8-SUBSTITUTED PURINE NUCLEOSIDES. A NEW ROUTE FOR PREPARING ABASIC OLIGODEOXYNUCLEOTIDES

Tetrahedron Letters, 1994, 35, 4991

Ali LAAYOUN, Jean-Luc DECOUT, Eric DEFRANCO, and Jean LHOMME*

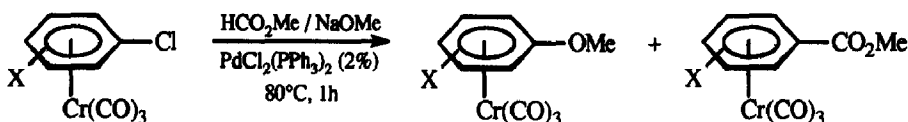
LEDSS, URA CNRS D0 332, Université J. Fourier, BP 53, 38041 GRENOBLE Cedex 9, FRANCE

8-Propylthio-2'-deoxyadenosine was incorporated into oligodeoxyribonucleotides by the phosphoramidite approach. Oxidation of the sulfur, followed by mild hydrolysis afforded the corresponding abasic sequences.



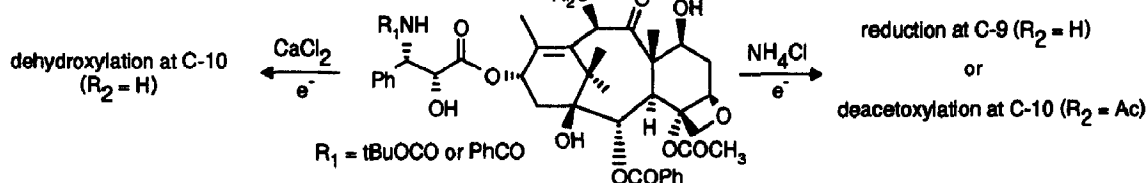
COMPETITIVE NUCLEOPHILIC AROMATIC SUBSTITUTION AND PALLADIUM-CATALYZED ALKOXYCARBONYLATION OF (SUBSTITUTED CHLOROARENE)Cr(CO)₃ COMPLEXES.
 Jean-François Carpentier*, Eric Finet, Yves Castanet, Jacques Brocard and André Mortreux, Laboratoire de Catalyse Hétérogène et Homogène, URA CNRS 402, Groupe de Chimie Organique Appliquée, ENSCL, B.P. 108 - 59652 Villeneuve d'Ascq Cedex, France

Reactions of tricarbonyl(substituted chloroarene)chromium complexes lead to ethers or esters.



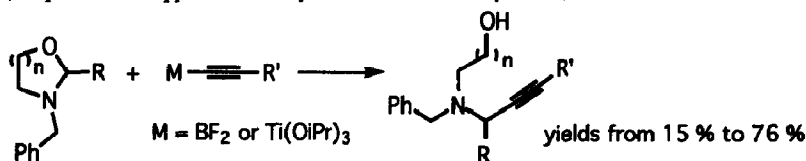
Electrochemical Reduction of Taxoids: Selective Preparation of 9-dihydro-, 10-deoxy- and 10-deacetoxy-Taxoids

J-P. Pulicani, J-D. Bourzat, H. Bouchard and A. Commerçon*, Rhône-Poulenc Rorer S.A. - Centre de Recherches de Vitry-Alfortville, 13 Quai Jules Guesde - BP14 - 94403 Vitry-sur-Seine (France)



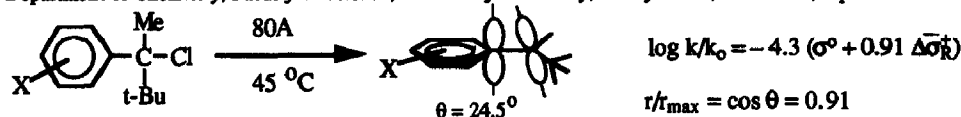
NUCLEOPHILIC RING OPENING OF TETRAHYDRO-1,3-OXAZINES AND 1,3-OXAZOLIDINES BY ALKYNYL ANIONS; A NOVEL SYNTHESIS OF β -AMINOACETYLENES

Ming-Jung Wu^{a,b,*}, Der-Sheng Yan^b, Hui-Wen Tsai^c, and Shu-Hui Chen^c
 a) School of Chemistry, b) Graduate Institute of Natural Products, Kaohsiung Medical College, Taiwan,
 c) Department of Applied Chemistry, Providence University, Shalu, Taiwan.



Substituent Effect on the Solvolysis of α -t-Butyl- α -methylbenzyl Chlorides

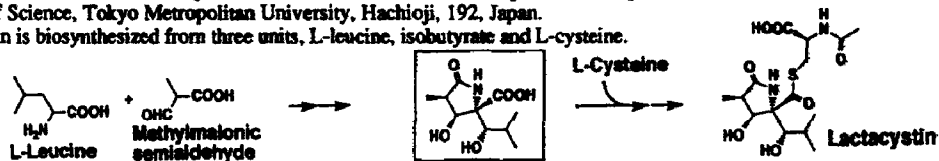
Mizue FUJIO,* Hideyuki NOMURA, Kazuhide NAKATA, Yoshihiro SAEKI, Masaaki MISHIMA, Shinjiro KOBAYASHI, Toshio MATSUSHITA,† Kichisuke NISHIMOTO,† and Yuho TSUNO
 Institute for Fundamental Research of Organic Chemistry, Kyushu University, Higashiku, Hakozaki, Fukuoka 812, Japan
 †Department of Chemistry, Faculty of Science, Osaka City University, Sumiyoshiku, Osaka 558, Japan



BIOSYNTHESIS OF LACTACYSTIN. ORIGIN OF THE CARBONS AND STEREOSPECIFIC NMR ASSIGNMENT OF THE TWO

Tetrahedron Letters, 1994, 35, 5009

DIASTEREOTOPIC METHYL GROUPS. Akira Nakagawa,* Senji Takahashi and Kenichi Uchida, Department of Biosciences, Teikyo University, Utsunomiya, 320, Japan. Keiichi Matsuzaki and Satoshi Omura, School of Pharmaceutical Sciences, Kitasato University and The Kitasato Institute, Minato-ku, 108, Japan. Asao Nakamura, Noboru Kurihara and Tsuyoshi Nakamatsu, Central Research Laboratories, Ajinomoto Co. Inc., Kawasaki, 210, Japan. Yoko Miyake, Kanako Take and Masatsune Kainosho, Faculty of Science, Tokyo Metropolitan University, Hachioji, 192, Japan.
Lactacystin is biosynthesized from three units, L-leucine, isobutyrate and L-cysteine.

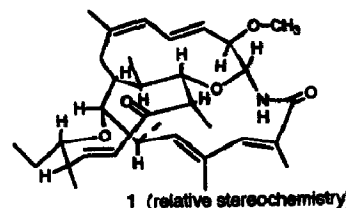


Halichomycin, a New Class of Potent Cytotoxic Macrolide Produced by an Actinomycete from a Marine Fish

Tetrahedron Letters, 1994, 35, 5013

Chika Takahashi, Tamie Takada, Takeshi Yamada, Katsuhiko Minoura, Kenjiro Uchida,^a Eiko Matsumura and Atsushi Numata^a
Osaka University of Pharmaceutical Sciences, Matsubara, Osaka 580, JAPAN
and ^aBruker Japan Co., Ltd., Ninomiya, Tsukuba, Ibaraki 305, JAPAN

Halichomycin, produced by a strain of *Streptomyces hygroscopicus* from the marine fish *Halichoeres bleekeri*, is a novel class of macrolide with potent cytotoxicity against tumour cells in culture.



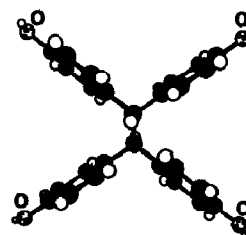
GUEST SELECTIVITY OF 1,1,2,2-TETRAKIS(4-HYDROXYPHENYL)ETHANE

Tetrahedron Letters, 1994, 35, 5015

Hiroshi Suzuki

R&D Laboratory for specialty Chemicals, Nippon Soda Co., Ltd.,
12-54 Goi-Minamikaigan, Ichihara 290, Japan

The inclusion selectivity of 1,1,2,2-Tetrakis(4-hydroxyphenyl)ethane is derived from the hydrogen bonding system in the host-guest aggregates. The mechanism for the inclusion selectivity has been studied by ¹³C CP/MAS NMR.

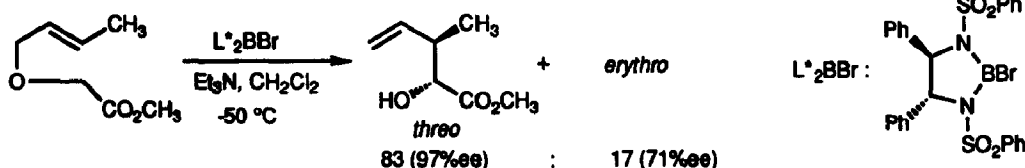


Enantioselective [2,3]Wittig Rearrangement Involving a Chiral Boron Enolate Terminus

Tetrahedron Letters, 1994, 35, 5019

Katsuhiko Fujimoto and Takeshi Nakai*

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

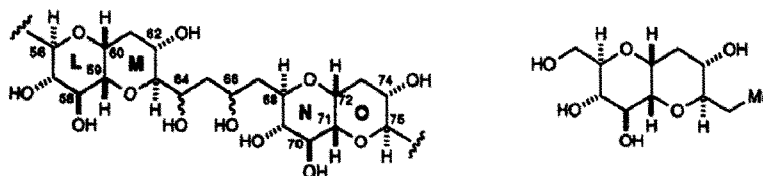


SYNTHESIS AND STEREOCHEMICAL CONFIRMATION OF THE CIS-FUSED L/M AND N/O RING SYSTEMS OF MAITOTOXIN

Tetrahedron Letters, 1994, 35, 5023

Makoto Sasaki, Taro Nonomura, Michio Murata, and Kazuo Tachibana*

Department of Chemistry, School of Science, The University of Tokyo, Hongo, Bunkyo-ku, Tokyo 113, Japan



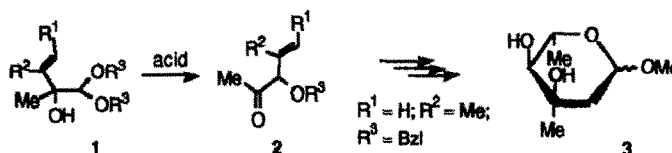
Acyloin Rearrangement of α -Hydroxy Acetals: Application to the Methyl L-Mycaroside Synthesis

Tetrahedron Letters, 1994, 35, 5027

Tadashi Sato,* Tutomu Nagata, Kenji Maeda, and Sawako Ohtsuka

Department of Applied Chemistry, Waseda University, Ookubo 3, Shinjuku-ku, Tokyo 169, Japan

Acid-treatment of α -hydroxy acetals **1** induced 1,2-migration to afford α -alkoxy- β,γ -enones **2**. One of the migration products was utilized for the synthesis of methyl L-mycaroside **3**.

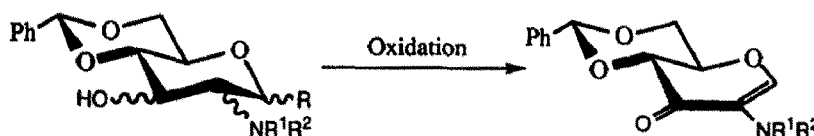


A NOVEL GENERAL METHOD FOR 2-AMINOGLYCAL SYNTHESIS.

Tetrahedron Letters, 1994, 35, 5031

Fernando Iglesias-Guerra*, José I. Candela, José L. Espartero and José M. Vega-Pérez*.

Departamento de Química Orgánica y Farmacéutica, Facultad de Farmacia, Universidad de Sevilla, 41071 SEVILLA, Spain.



TRIPHENYLBISMUTH DIBROMIDE-IODINE: AN EFFICIENT REAGENT FOR THE DEHYDRATION OF ALCOHOLS

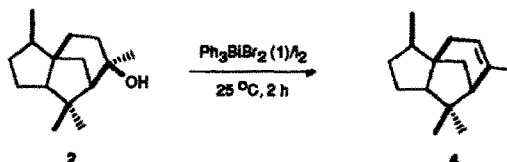
Tetrahedron Letters, 1994, 35, 5035

Carmen Botancor,[†] Rosa L. Dorta[‡] and Ernesto Suárez^{*,†}

[‡]Instituto de Productos Naturales y Agrobiología del C.S.I.C., Carretera de La Esperanza 2, 38206-La Laguna, Tenerife, Spain

[†]Departamento de Química Orgánica, Universidad de La Laguna, Tenerife, Spain.

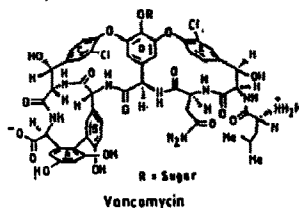
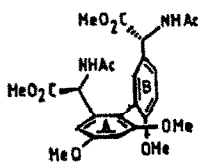
Tertiary and secondary alcohols react under mild conditions with triphenylbismuth dibromide and iodine under an inert atmosphere to give the corresponding most stable alkenes in good yields.



A CONCISE ROUTE TO BIARYLS : FORMAL SYNTHESIS OF BIARYL DIAMINO DIACID (AB SEGMENT) OF VANCOMYCIN

Tetrahedron Letters, 1994, 35, 5039

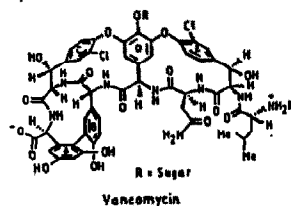
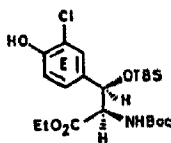
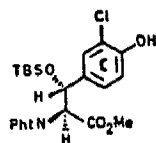
A V Rama Rao*, K Laxma Reddy and M Machender Reddy
Indian Institute of Chemical Technology, Hyderabad 500 007, India



AN EXPEDITIOUS APPROACH FOR THE SYNTHESIS OF β -HYDROXY ARYL- α -AMINO ACIDS PRESENT IN VANCOMYCIN

Tetrahedron Letters, 1994, 35, 5043

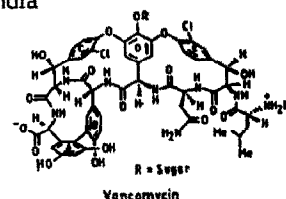
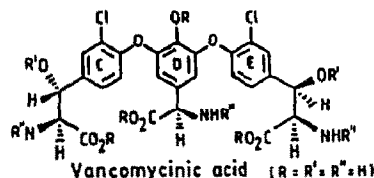
A V Rama Rao*, T K Chakraborty, K Laxma Reddy and A Srinivasa Rao
Indian Institute of Chemical Technology, Hyderabad 500 007, India



THE FIRST SYNTHESIS OF VANCOMYCINIC ACID

Tetrahedron Letters, 1994, 35, 5047

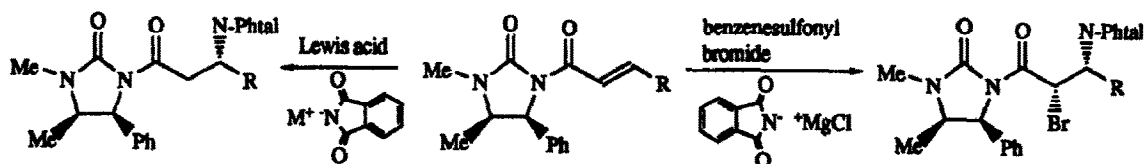
A V Rama Rao*, K Laxma Reddy and A Srinivasa Rao
Indian Institute of Chemical Technology, Hyderabad 500 007, India



MICHAEL-TYPE ADDITION OF PHTHALIMIDE SALTS TO CHIRAL α,β -UNSATURATED IMIDES

Tetrahedron Letters, 1994, 35, 5051

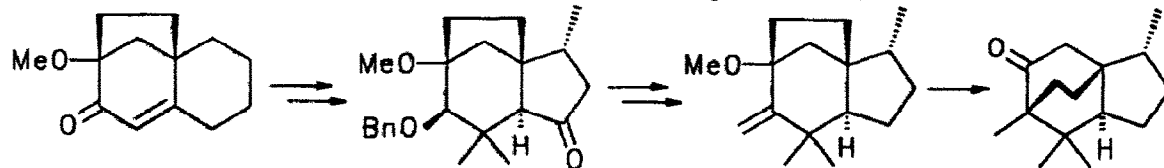
Giuliana Cardillo*, Angela De Simone, Luca Gentilucci, Piera Sabatino and Claudia Tomasini
Dipartimento di Chimica "G. Ciamician" - Università di Bologna - Via Selmi, 2 - 40126 Bologna - ITALY



TOTAL SYNTHESIS OF (±)-ALLO-CEDROL [KHUSIOL]

P. Sathya Shanker and G. S. R. Subba Rao*

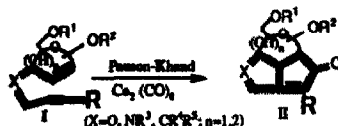
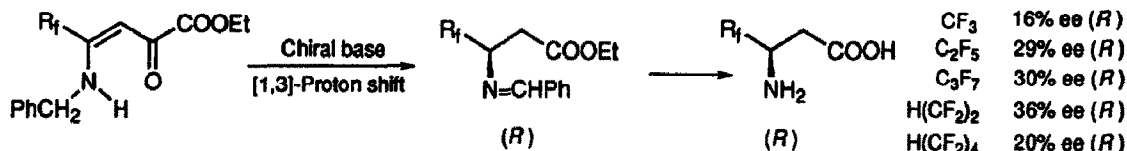
Department of Organic Chemistry, Indian Institute of Science, Bangalore-560012, India.

**THE PAUSON-KHAND REACTION ON CARBOHYDRATE TEMPLATES. I. THE SYNTHESIS OF BIS-HETEROANNULATED PYRANOSIDES.**

José Marco-Contelles

Instituto de Química Orgánica General, CSIC, Juan de la Cierva, 3. 28006-Madrid, Spain.

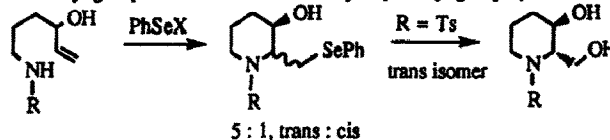
The Pauson-Khand reaction of some 1-hepten-6-yne I derived from carbohydrates is reported.

**CATALYTIC ASYMMETRIC SYNTHESIS OF β-FLUOROALKYL-β-AMINO ACIDS VIA BIOMIMETIC [1,3]-PROTON SHIFT REACTION**V. A. Soloshonok,* A. G. Kirilenko, S. V. Galushko, and V. P. Kukhar *Institute of Bioorganic Chemistry and Petrochemistry, Ukrainian Academy of Sciences, Kiev 253160, Ukraine*

The asymmetric biomimetic [1,3]-proton shift reaction has been achieved by using (-)-cinchonidine as chiral catalyst.

SELENIUM INDUCED STEREOSELECTIVE CYCLIZATION OF N-SUBSTITUTED-4-HYDROXY-5-HEXENYLAMINES

Mathew A. Cooper and A. David Ward, Department of Chemistry, University of Adelaide, Australia, 5005

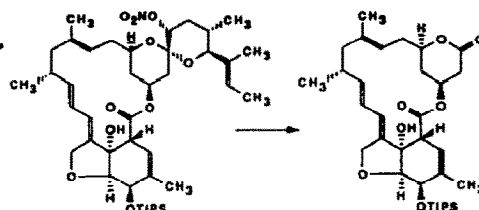
N-substituted-4-hydroxy-5-hexenylamines cyclise with phenylselenenyl halides to form *trans*-2-phenylselenomethyl-3-hydroxypiperidines stereoselectively. The phenylselenomethyl group can be converted to an hydroxymethyl group by oxidation and treatment with base.

ALKOXY RADICALS IN ORGANIC SYNTHESIS. A NOVEL APPROACH TO A KEY INTERMEDIATE IN MILBEMYCIN CHEMISTRY.

Tetrahedron Letters, 1994, 35, 5069

Nigel Hussain,* David O. Morgan and Charles R. White. SmithKline Beecham Pharmaceuticals, Great Burgh, Yew Tree Bottom Road, Epsom, Surrey. KT18 5XQ.
John A. Murphy. Department of Chemistry, University of Nottingham, University Park, Nottingham, Nottinghamshire. NG7 2RD.

Conversion of a nitrate ester to a lactone involving an alkoxy radical is described. This process includes an interesting fragmentation of the alkoxy radical.

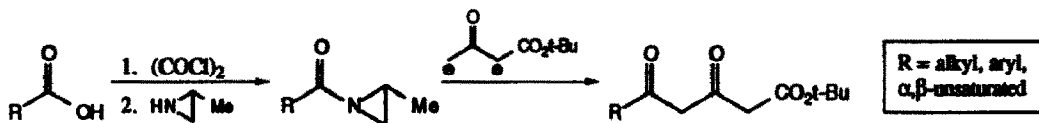


N-ACYL AZIRIDINES - C-ACYLATING AGENTS FOR THE PREPARATION OF POLYKETIDES.

Tetrahedron Letters, 1994, 35, 5073

Barry Lygo

Department of Chemistry and Applied Chemistry, University of Salford, Manchester, M5 4WT, UK.

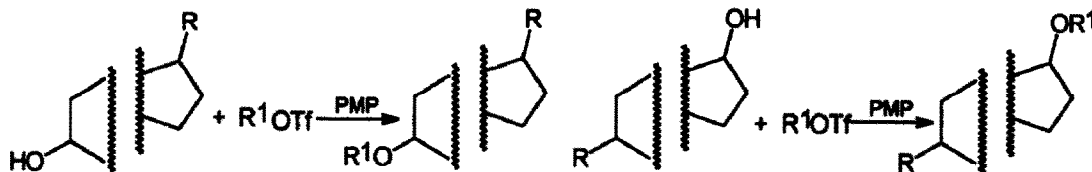


ETHERIFICATION OF HYDROXYSTEROIDS VIA TRIFLATES.

Tetrahedron Letters, 1994, 35, 5075

Anatoly M. Belostotskii and Alfred Hassner, Chemistry Department, Bar-Ilan University, Ramat-Gan, 52900, Israel.

Triflates of aliphatic alcohols alkylate 3- and 17-hydroxysteroids in the presence of hindered amines forming the steroidal ethers.

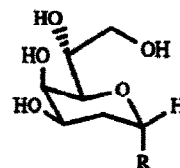


SYNTHESIS OF NOVEL PHOSPHONATE ANALOGUE OF Kdo AS A TOOL FOR THE DESIGN OF POTENT INHIBITORS FOR LIPOPOLYSACCHARIDE BIOSYNTHESIS

Tetrahedron Letters, 1994, 35, 5077

Shani Sheffer-Dee-Noor, Valery Belakhov and Timor Baasov*
Department of Chemistry, Technion - Israel Institute of Technology, Haifa 32000, Israel

Abstract: The new phosphonate analogue 3 of 2-deoxy- β -Kdo (2) was prepared in a stereospecific manner via intramolecular C-C bond formation. X-Ray structure analysis and NMR studies of the cyclization product established the twist-boat conformation of the pyranose ring with α -anomeric configuration of the phosphonate linkage.

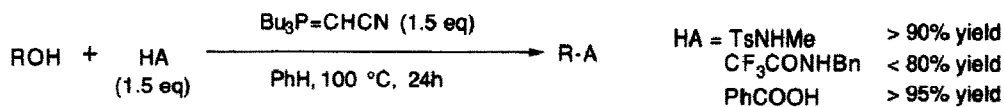


2 R = CO₂H
3 R = PO₃H₂

NOVEL REACTIVITY OF STABILIZED METHYLENE-TRIBUTYLPHOSPHORANE: A NEW MITSUNOBU REAGENT

Tetsuto Tsunoda,* Fumie Ozaki, and Shō Itō

Faculty of Pharmaceutical Sciences, Tokushima Bunri University, Tokushima, 770 Japan



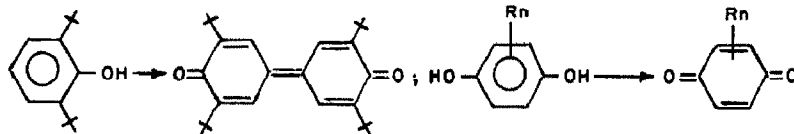
The reaction of 2-octanol with benzoic acid or *N*-methyltosylamide proceeds with complete Walden inversion.

Fe(III)-EDTA MEDIATED AUTOXIDATION OF 2,6-DI-*t*-BUTYLPHENOL AND SUBSTITUTED HYDROQUINONES BY MOLECULAR OXYGEN

Bir Sain, Pappu S. Murthy, T. Venkateshwar Rao, T. S. R. Prasada Rao, and Girish C. Joshi*

Indian Institute of Petroleum, Dehra Dun - 248 005, India

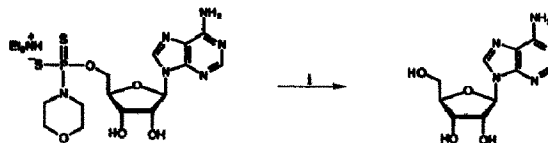
Title compounds oxidized in aq. MeOH containing Fe(III)-EDTA at room temperature and pH 8.0-8.5 by molecular oxygen in excellent yields.



ACID-CATALYSED HYDROLYSIS OF ADENOSINE 5'-PHOSPHO-DITHIOMORPHOLIDATE

Colin B. Reese*, Louise H. K. Shek and Zhengyun Zhao

Department of Chemistry, King's College London, Strand, London WC2R 2LS, England



Reagents and conditions : i, AcOH - H₂O (95 : 5 v/v), RT