

GRAPHICAL ABSTRACTS

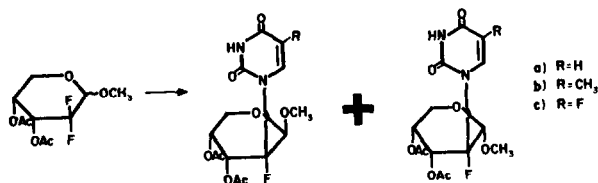
Tet.Lett., 27, 28, 3219 (1986)

METHYL 3,4-di-O-ACETYL-2-DEOXY-2(R)-[1H,3H-2,4-DIOXO-1-PYRIMIDINYL]-2-FLUORO-β-D-ARABINOPYRANOSIDE.

Seung-Ho An and Miroslav Bobek*

Department of Experimental Therapeutics, Roswell Park Memorial Institute, Buffalo, NY 14263 USA

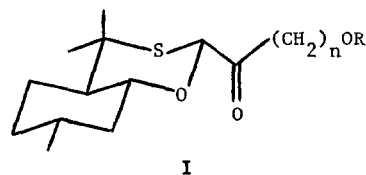
Synthesis of 2-fluoro-2-pyrimidinylarabino-pyranosides via condensation of a protected methyl 2,2-difluoro glycoside with silylated pyrimidines. Novel antitumor nucleosides.



Tet.Lett., 27, 28, 3223 (1986)

PREVENTION OF CHELATION BY AN OXYGEN FUNCTION THROUGH PROTECTION WITH A TRIISOPROPYL SILYL GROUP. Stephen V. Frye and Ernest L. Eliel* William R. Kenan, Jr. Laboratories of Chemistry, University of North Carolina, Chapel Hill, NC 27514, USA

In reaction of I (n = 1,2) with CH₃MgBr and, for n = 2, L-Selectride®, much greater diastereoselectivity is achieved when R = (i-Pr)₃Si than when R = PhCH₂, suggesting competing chelation with OR in the latter case but not the former.



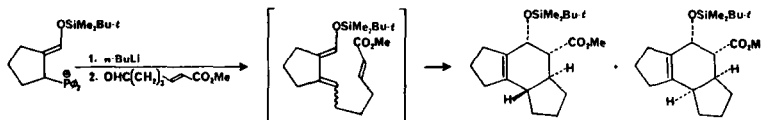
Tet.Lett., 27, 28, 3227 (1986)

A USEFUL APPROACH TO TRICYCLIC COMPOUNDS AND MEDIUM RING DIKETONES THROUGH THE PHOSPHONIOSILYLATION REACTION.

Alan P. Kozikowski* and Sun Ho Jung

Department of Chemistry, University of Pittsburgh, Pittsburgh, PA 15260 USA

The construction of tricyclic structures by the "P-Si" reaction has been probed.



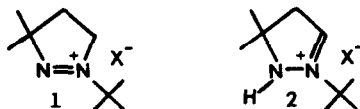
Tet.Lett., 27, 28, 3231 (1986)

FAST ATOM BOMBARDMENT MASS SPECTROMETRY OF ISOMERIC PYRAZOLIUM SALTS UNDER MATRIXLESS CONDITIONS

Clifton G. Sanders, Thomas R. Sharp, and Evan L. Allred*

Department of Chemistry, University of Utah, Salt Lake City, Utah 84112, USA

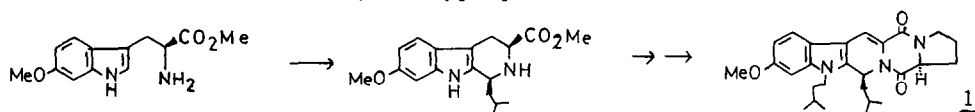
Fast atom bombardment mass spectrometry of solid matrixless samples of pyrazolinium salts 1 and 2 give spectra with molecular ions that provide molecular weights of the parent cations. The spectra are suitable for structural analysis and clearcut differentiation between the isomeric cations.



Tet.Lett., 27, 28, 3235 (1986)

SYNTHETIC APPROACH TO THE TOTAL SYNTHESIS OF FUMITREMORGINS II. SYNTHESIS OF OPTICALLY ACTIVE PENTACYCLIC INTERMEDIATES AND THEIR DEHYDROGENATION
M.Nakagawa, H.Fukushima, T.Kawate, M.Hongo, S.Kodato, T.Une, M.Taniguchi, and T.Hino. Faculty of Pharmaceutical Sciences, Chiba University, 1-33 Yayoi-cho, Chiba-shi, 260, Japan

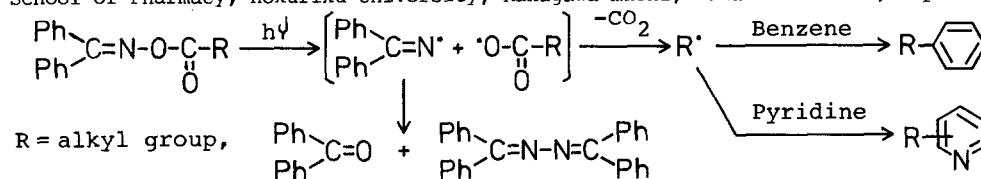
Optically active pentacyclic compound **1** and the related compounds are synthesized from 6-methoxy-L-tryptophan.



PHOTOCHEMICAL GENERATION OF ALIPHATIC RADICALS FROM BENZOPHENONE OXIME ESTERS: SIMPLE SYNTHESIS OF ALKYL BENZENES AND ALKYL PYRIDINES

Tet.Lett., 27, 28, 3239 (1986)

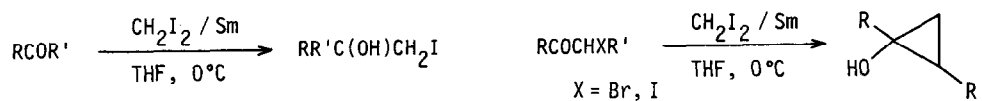
Masato Hasebe* and Takashi Tsuchiya, School of Pharmacy, Hokuriku University, Kanagawa-machi, Kanazawa 920-11, Japan



Tet.Lett., 27, 28, 3243 (1986)

THE REACTION OF CARBONYL COMPOUNDS WITH DIIODOMETHANE IN THE PRESENCE OF SAMARIUM: NOVEL SYNTHESIS OF IODOHYDRINS AND CYCLOPROPANOLS

Tsuneo Imamoto*, Toshiaki Takeyama, and Hiroyasu Koto Department of Chemistry, Faculty of Science, Chiba University, Chiba 260, Japan

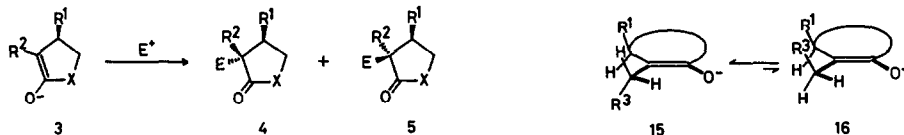


Tet.Lett., 27, 28, 3247 (1986)

A Rationale of Diastereofacial Selection in the Alkylation of Endocyclic Enolates with Chirality at the β -Position

Kiyoshi Tomioka,* Kosuke Yasuda, Hisashi Kawasaki, and Kenji Koga Faculty of Pharmaceutical Sciences, University of Tokyo, Bunkyo-ku, Tokyo 113, Japan

A Rationale of diastereofacial selection in the alkylation of **3** based on the conformation **15**

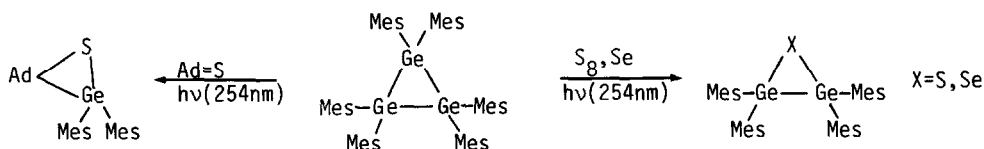


Tet.Lett., 27, 28, 3251 (1986)

SYNTHESIS OF GERMATHIIRANES

Wataru Ando* and Takeshi Tsumuraya

Department of Chemistry, University of Tsukuba, Niiharigun, Ibaraki 305, Japan



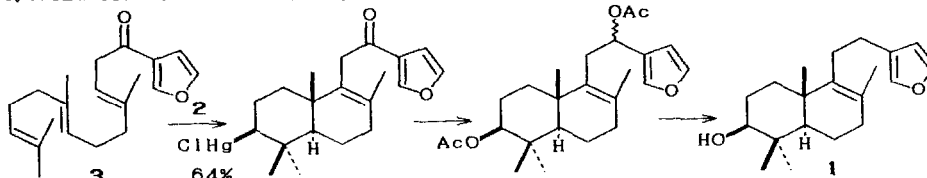
Tet.Lett., 27, 28, 3255 (1986)

Total Synthesis of (±)-Baiyunol

Mugio Nishizawa,* Hidetoshi Yamada, and Yuji Hayashi

Department of Chemistry, Faculty of Science, Osaka City University, Osaka 558, Japan

Total Synthesis of (±)-baiyunol (1), an aglycon of sweet substance, has accomplished via cationic cyclization of 3 with mercury(II) triflate/N,N-dimethylaniline complex (2) efficiently.



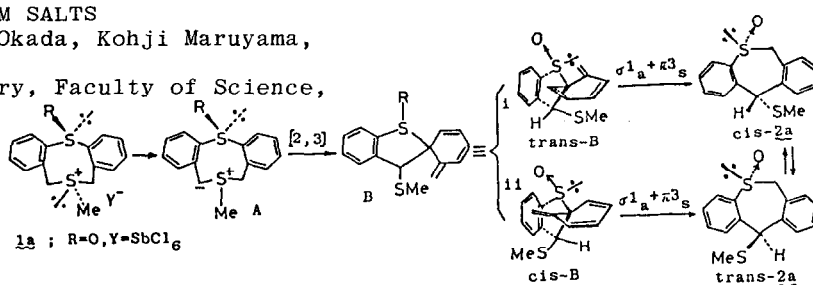
Tet.Lett., 27, 28, 3257 (1986)

BASE INDUCED SKELETAL REARRANGEMENTS VIA SPIROCYCLIC IPSO INTERMEDIATES IN DIBENZODITHIOCINIUM SALTS

Katsuo Ohkata, Keiji Okada, Kohji Maruyama, and Kin-ya Akiba

Department of Chemistry, Faculty of Science, Hiroshima University, Hiroshima 730, Japan

A novel rearrangement of **1a** via tandem sigmatropy is described.

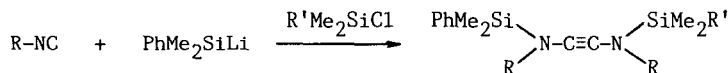


Tet.Lett., 27, 28, 3261 (1986)

A NOVEL DIMERIZATION OF ISONITRILE BY ORGANOSILYL LITHIUM.

Yoshihiko Ito*, Takaharu Matsuura, Sugio Nishimura, and Mitsuo Ishikawa
Department of Synthetic Chemistry, Kyoto University, Kyoto 606, Japan

An organosilyllithium induced dimerization of isonitrile to diaminoacetylene derivative is reported.

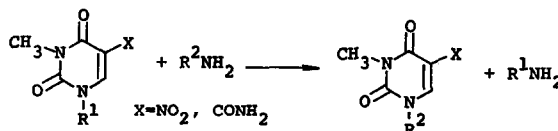


Tet.Lett., 27, 28, 3263 (1986)

NOVEL REACTION OF 5-NITRO(OR CARBAMOYL)URACIL DERIVATIVES WITH AMINES. THERMAL EXCHANGE REACTION OF N₁-PORTION OF THE URACILS FOR AMINES VIA RING-OPENING AND RING-CLOSURE PROCESSES

Kosaku Hirota,* Yukio Kitade, Hironao Sajiki, and Yoshifumi Maki
Gifu Pharmaceutical University, Mitahora-Higashi, Gifu 502, Japan

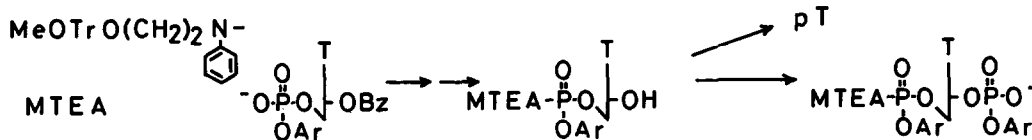
The reaction of 1,3-disubstituted 5-nitro(or carbamoyl)uracils with amines induced the N₁-exchange reaction.



Tet.Lett., 27, 28, 3267 (1986)

CHEMICAL SYNTHESIS OF 5'-PHOSPHORYLATED OLIGODEOXYRIBONUCLEOTIDE ON A POLYMER SUPPORT

Toshiki Tanaka, Yasuki Yamada, and Morio Ikehara
Faculty of Pharmaceutical Sciences, Osaka University, Osaka 565, Japan.

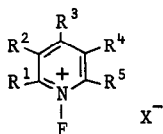


Tet.Lett., 27, 28, 3271 (1986)

N-FLUOROPYRIDINIUM TRIFLATE AND ITS ANALOGS, THE FIRST STABLE 1:1 SALTS OF PYRIDINE NUCLEUS AND HALOGEN ATOM

Teruo Umemoto* and Kyoichi Tomita
Sagami Chemical Research Center, Nishi-Ohnuma 4-4-1, Sagamihara, Kanagawa 229, Japan

Syntheses and properties of the title salts are described.



X ; OTf, BF₄, PF₆, ClO₄, SbF₆ etc.

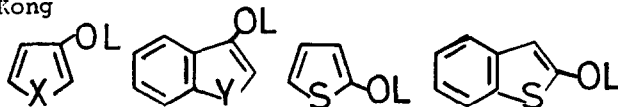
R¹⁻⁵; H, Me, Cl, OMe, COOMe

Tet.Lett., 27, 28, 3275 (1986)

THE TAUTOMERISM OF HYDROXY DERIVATIVES OF FIVE-MEMBERED OXYGEN, NITROGEN, AND SULFUR HETEROCYCLES

Brian Capon* and Fu-Chiu Kwok, Department of Chemistry, University of Hong Kong, Pokfulam Road, Hong Kong

Generation of enolic tautomers in solution and measurements of the rate and equilibrium constants for their ketonization.



X = O, S, NL, NMe. Y = O, S, NL, NMe, CH₂. L = H, D

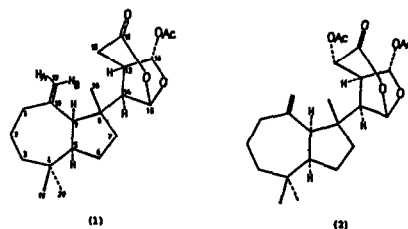
DITERPENE METABOLITES OF THE MARINE SPONGE
CHELONAPLYSILLA VIOLACEA

Tet.Lett., 27,28,3281 (1986)

Trevor W. Hambley,^a Anthony Poiner,^b and Walter C. Taylor^b

^aDepartment of Inorganic Chemistry, ^bDepartment of Organic Chemistry, University of Sydney, NSW 2006, Australia

The major diterpene constituents of the marine sponge Chelonaplysilla violacea, aplyviolene and aplyviolacene, were shown by a combination of spectroscopic and X-ray crystallographic methods to have the structures (1) and (2) respectively.



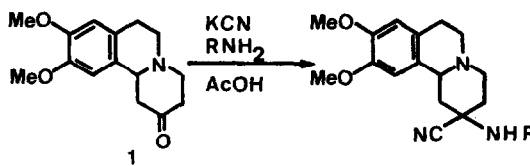
THE APPLICATION OF ULTRASOUND TO THE STRECKER SYNTHESIS

ON 9,10-DIMETHOXY-1,3,4,6,7,11b-HEXAHYDROBENZO[a]QUINOLIZIN-2-ONE.

José Carlos Menéndez, Gregorio G. Trigo, and Mónica M. Söllhuber*

Dpto. Química Orgánica y Farmacéutica. Facultad de Farmacia, Univ. Complutense. 28040 Madrid.

Irradiation with ultrasound in acetic acid solution facilitates the aminocyanation of the title aminoketone 1



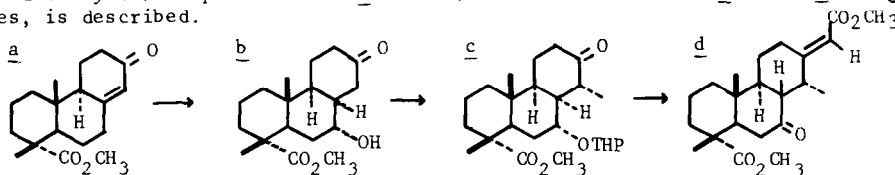
Tet.Lett., 27,28,3285 (1986)

AN APPROACH TO ERYTHROPHLEUM ALKALOIDS. SYNTHESIS OF METHYL(-)-4-EPI-CASSAMATE

A. Abad, C. Agulló, M. Arnó*, L.R. Domingo, R.J. Zaragoza

Organic Chemistry Department, University of Valencia, Dr. Moliner 50, Burjassot, Valencia, Spain

A synthesis of methyl(-)-4-epi-cassamate d from α,β -unsaturated ketone a, with b and c as key intermediates, is described.



Tet.Lett., 27,28,3289 (1986)

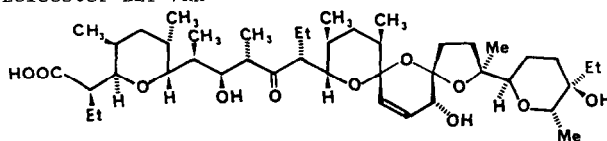
BIOSYNTHESIS OF THE POLYETHER ANTIBIOTIC NARASIN:
ORIGINS OF THE OXYGEN ATOMS AND THE MECHANISMS OF RING FORMATION.

Z Spavold, J A Robinson* and D L Turner

Department of Chemistry, The University, Southampton SO9 5NH

Department of Chemistry, The University, Leicester LE1 7RH

The incorporation of [1-¹³C, ¹⁸O₂] labelled acetate and butyrate as well as of ¹⁸O₂, into narasin has been studied.



Tet.Lett., 27,28,3299 (1986)

Tet.Lett., 27, 28, 3303 (1986)

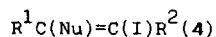
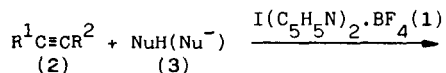
A NEW ELECTROPHILIC ADDITION TO ACETYLENES. SYNTHESIS OF 1,2-iodofunctionalized olefins

J. Barluenga,* M.A. Rodríguez, J.M. González, P.J. Campos
Departamento de Química Orgánica. Facultad de Química.
Universidad de Oviedo, 33071 Oviedo. SPAIN.

G. Asensio

Departamento de Química Orgánica. Facultad de Farmacia.
Universidad de Valencia, 46101 Valencia. SPAIN.

Acetylenes react with bis(pyridine)iodo(I) tetrafluoroborate (1) in the presence of a wide variety of nucleophiles to give 1,2-iodofunctionalized olefins (4).



Nu: F, Cl, Br, I, SCN, pyridine, OAc,
anisole, H

R¹: Et, Ph; R²: Et, Me, H.