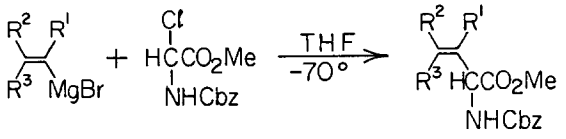
Tet.Lett.,27,22,2435 (1986)

REACTIONS OF AN ELECTROPHILIC GLYCINE CATION EQUIVALENT
WITH GRIGNARD REAGENTS
A SIMPLE SYNTHESIS OF β,γ-UNSATURATED AMINO ACIDS[1]

Arlindo L. Castelhano,* Stephen Horne,[2] Roland Billedeau, Allen Krantz*
Syntex Inc., 2100 Syntex Court, Mississauga, Ont., Canada L5N 3X4

A simple and general synthesis of α-amino acids employing vinyl and alkyl Grignard reagents with a glycine cation equivalent is described.

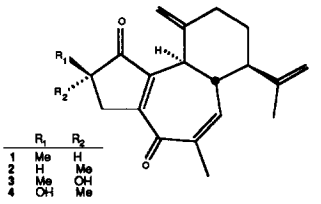


Tet.Lett.,27,22,2439 (1986)

ISOLATION AND STRUCTURE DETERMINATION OF FOUR NOVEL DITERPENES FROM *JATROPHA CURCUS*

W. Naengchonmong and Y. Thebtaranonth*
Dept. of Chemistry, Faculty of Science, Mahidol U., Bangkok 10400, THAILAND
P. Wiriyachitra
Dept. of Chemistry, Prince of Songkla U., Haad Yai, THAILAND
K.T. Okamoto and J. Clardy*
Dept. of Chemistry, Baker Laboratory, Cornell U., Ithaca, NY 14853-1301

Curcusones A-D (1 - 4) have been isolated from *J. curcus*.

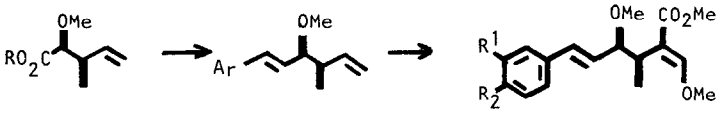


Tet.Lett.,27,22,2443 (1986)

SYNTHESIS OF OUDEMANSINS A AND B

James Kallmerten* and Mark D. Wittman
Department of Chemistry, Syracuse University, Syracuse, NY 13210

A short, stereocontrolled preparation of the antifungal compounds oudemansin A and B from a common intermediate is described:



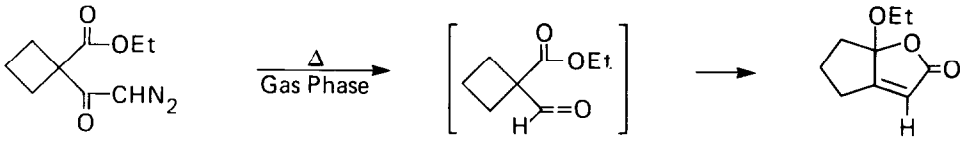
$R^1=R^2=H$, oudemansin A
$R^1=OMe$, $R^2=Cl$, oudemansin B

Tet.Lett.,27,22,2447 (1986)

A Novel Ring Expansion of 1-Carboethoxy-1,1-Trimethylene-3-Diazo-2-Propanone

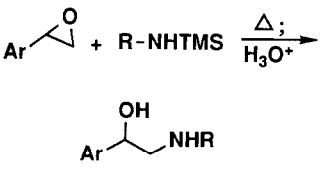
R.D. Miller and W. Theis
IBM Almaden Research Center, San Jose, CA 95120-6099

An unusual intramolecular ring expansion initiated by the attack of a ketene electrophile has been observed.



Tet.Lett.,27,22,2451 (1986)

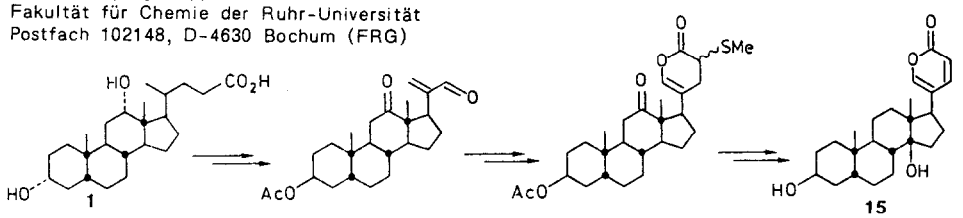
ALKYLATION OF N-TRIMETHYLSILYLATED PRIMARY AMINES WITH ARYLETHYLENE OXIDES. AN EFFICIENT SYNTHESIS OF 1-PHENETHANOLAMINES. Randall K. Atkins, Jeffery Frazier, Larry L. Moore, and Leland Weigel, Lilly Research Laboratories, Eli Lilly and Company, Indianapolis, Indiana 46285 USA



Reaction of silylated primary amines with styrene oxide derivatives provides good yields of 1-phenethanolamines after acidic hydrolysis. Much better conversions are realized when compared to direct equimolar alkylations.

Tet.Lett.,27,22,2459 (1986)

A SYNTHESIS OF BUFALIN FROM DEOXYCHOLIC AC
Hans-Wolfgang Hoppe and Peter Welzel
Fakultät für Chemie der Ruhr-Universität
Postfach 102148, D-4630 Bochum (FRG)

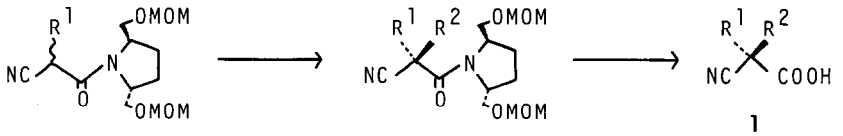


The 3-acetate of bufalin (**15**) has been synthesized starting from deoxycholic acid (**1**) in 12 steps.

Tet.Lett.,27,22,2463 (1986)

ASYMMETRIC DIALKYLATION OF α-CYANOACETIC ACID
Takeshi HANAMOTO, Tsutomu KATSUKI*, and Masaru YAMAGUCHI
Department of Chemistry, Kyushu University 33, Fukuoka 812, Japan

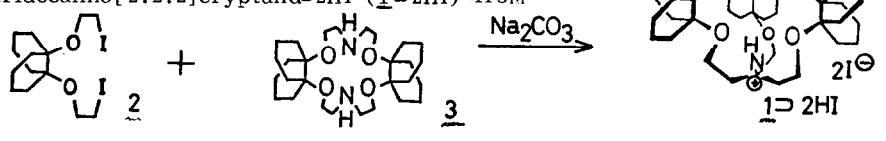
A synthesis of α,α-dialkylated cyanoacetic acid **1**



Tet.Lett.,27,22,2465 (1986)

SYNTHESIS OF LARGE RING PROTON CRYPTATE TRIDECALINO[2.2.2]CRYPTAND⊃2HI
Kazuya Kobiro,* Shigeki Takada, Kiyomi Kakiuchi, Yoshito Tobe, and Yoshinobu Odaira
Department of Applied Fine Chemistry, Osaka University, Suita, Osaka 565, Japan

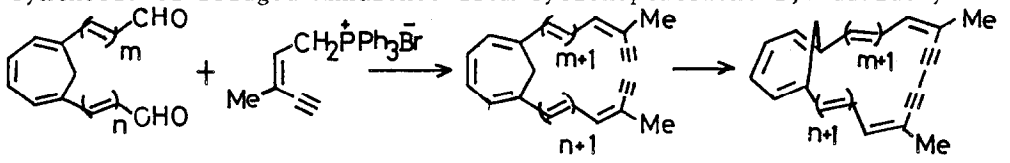
A synthesis of tridecalino[2.2.2]cryptand⊃2HI (1⊃2HI) from 2 and 3



Tet.Lett.,27,22,2467 (1986)

SYNTHESIS OF METHANO-BISDEHYDRO[18]-, -[20]-, -[22]-, AND -[24]ANNULENES, J. Ojima et al., Faculty of Science, Toyama University, Toyama 930, Japan

A synthesis of Bridged Annulenes from cycloheptatriene-1,6-dialdehyde

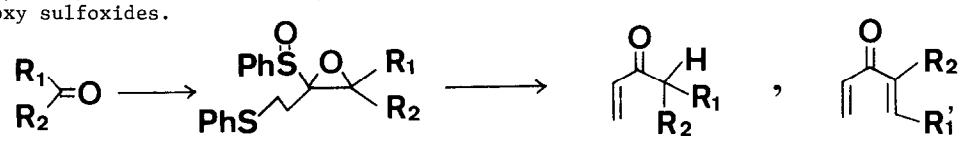


Tet.Lett.,27,22,2471 (1986)

A NOVEL SYNTHESIS OF ALKYL VINYL KETONES AND DIVINYL KET FROM CARBONYL COMPOUNDS BY THREE-CARBON HOMOLOGATION

Tsuyoshi Satoh, Takumi Kumagawa, and Koji Yamakawa*
Science University of Tokyo, Ichigaya-funagawara-machi, Shinjuku-ku, Tokyo 162, Japan

Alkyl vinyl ketones and divinyl ketones are synthesized from carbonyl compounds through α,β-epoxy sulfoxides.

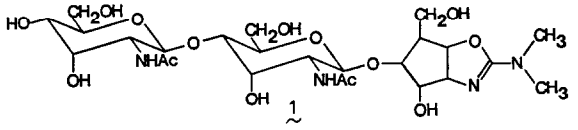


Tet.Lett.,27,22,2475 (1986)

THE STRUCTURE OF ALLOSAMIDIN, A NOVEL INSECT CHITINASE INHIBITOR, PRODUCED BY STREPTOMYCES SP.

Shohei Sakuda, Akira Isogai, Shogo Matsumoto and Akinori Suzuki*
Department of Agricultural Chemistry, The University of Tokyo, Bunkyo-ku, Tokyo 113, Japan
Koshi Koseki
Central Research Institute, Japan Tobacco Inc.,
6-2 Umegaoka, Midoriku, Yokohama, Kanagawa 227, Japan

Allosamidin, a novel insect chitinase inhibitor, was isolated and characterized as 1.

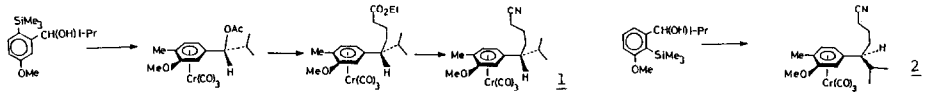


Tet.Lett.,27,22,2479 (1986)

STEREOSELECTIVE SYNTHESIS OF KEY (η^6-ARENE)Cr(CO)$_3$ COMPLEXES TO ACORENONE AND ACORENONE B

Motokazu Uemura*, Toshio Kobayashi, Tatsuya Minami, and Yuji Hayashi
Osaka City University, Faculty of Science, Sugimoto 3-3-138, Sumiyoshi-ku, Osaka 558, Japan

A stereoselective synthesis of key chromium complexes 1 and 2 to acorenone B and acorenone via diastereoselective complexation and stereospecific carbon-carbon bond formation.

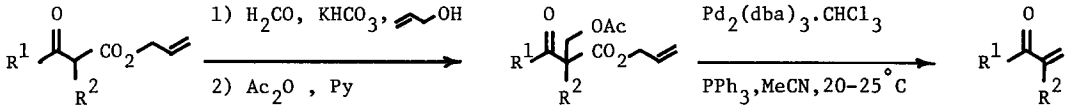


Tet.Lett.,27,22,2483 (1986)

PREPARATION OF α-METHYLENE KETONES BY THE PALLADIUM-CATALYZED DECARBOXYLATION-DEACETOXYLATION OF ALLYL α-ACETOXYMETHYL-β-KETO CARBOXYLATES UNDER MILD CONDITIONS.

Jiro TSUJI*, Mohammad NISAR, and Ichiro MINAMI
Tokyo Institute of Technology, Meguro, Tokyo 152, Japan.

Regiospecific synthesis of α-Methylene Ketones catalyzed by the palladium complex.

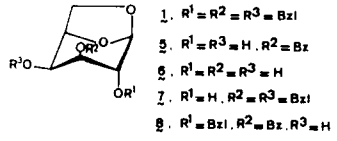


Tet.Lett.,27,22,2497 (1986)

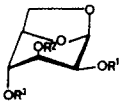
O-BENZYL PROTECTING GROUPS AS HYDROGEN DONORS IN CATALYTIC TRANSFER HYDROGENOLYSIS. SELECTIVE DEBENZYLATION OF 1,6-ANHYDRO HEXOSES

Mª del Carmen Cruzado and Manuel Martín-Lomas *
Instituto de Química Orgánica, CSIC, Juan de la Cierva 3, 28006 Madrid (Spain).

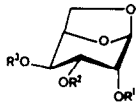
Selective heterogeneous catalytic transfer hydrogenolysis of compounds 1-3 using 10% Pd-C as catalyst and 2-propanol as hydrogen donor gave compounds 5, 12 and 14 besides 6, 13 and 15 respectively. Compounds 7, 8 and 16 were also formed.



1. $R^1=R^2=R^3=Bzl$
5. $R^1=R^3=H, R^2=Bz$
6. $R^1=R^2=R^3=H$
7. $R^1=H, R^2=R^3=Bzl$
8. $R^1=Bzl, R^2=Bz, R^3=H$



2. $R^1=R^2=R^3=Bzl$
12. $R^1=R^3=H, R^2=Bz$
13. $R^1=R^2=R^3=H$



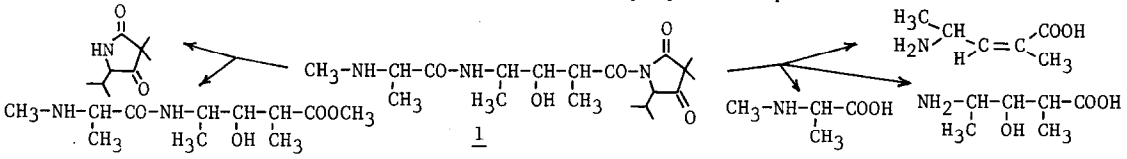
3. $R^1=R^2=R^3=Bzl$
14. $R^1=Bz, R^2=R^3=H$
15. $R^1=R^2=R^3=H$
16. $R^1=R^3=H, R^2=Bz$

Tet.Lett.,27,22,2505 (1986)

JANOLUSIMIDE,A LIPOPHILIC TRIPEPTIDE TOXIN FROM THE NUDIBRANCH MOLLUSC *JANOLUS CRISTATUS*.

Guido Sodano and Aldo Spinella
Istituto per la Chimica di Molecole di Interesse Biologico,CNR,Arco Felice,Naples,Italy.

Structure 1 has been established for janolusimide by spectroscopic and chemical means.

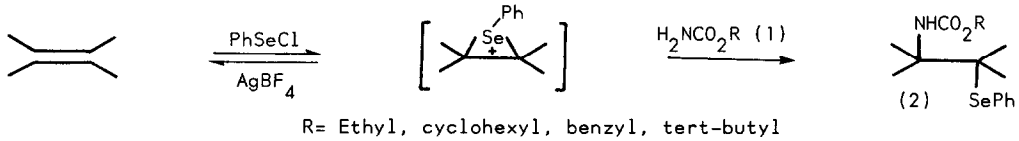


Tet.Lett.,27,22,2513 (1986)

AMINOSELENENYLATION OF OLEFINS. SYNTHESES OF β-PHENYLSELENO CARBAMATES

C.G. Francisco, E.I. León, J.A. Salazar*, and E.Suárez
Instituto de Productos Naturales Orgánicos, C.S.I.C.; C. La Esperanza 2, Tenerife, Spain

β-Phenylseleno carbamates (2) have been synthesized by reaction of olefins with phenylselenenyl chloride and carbamates (1) in presence of silver tetrafluoroborate.



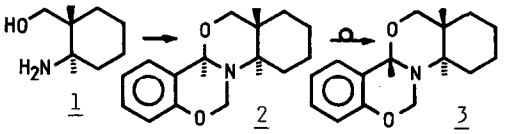
R= Ethyl, cyclohexyl, benzyl, tert-butyl

Tet.Lett.,27,22,2517 (1986)

STEREOSPECIFIC ONE-POT SYNTHESIS OF A NEW 6,11-DIOXA-7-AZA-D-HOMOSTEROID RING SYSTEM

Ferenc Fülöp, Gábor Bernáth* and István Pelczer
Inst. Pharm. Chem., Univ. Med. School, H-6701 Szeged, P.O.B. 121, Hungary

A one-pot synthesis of 2 from 1, and a spontaneous epimerization to 3 are described. The stereochemistry of 2 and 3 has been determined via DDS and NOEDS measurements.

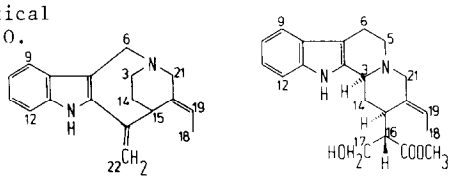


Tet.Lett.,27,22,2523 (1986)

TRIFLUOROACETIC ACID, A ^{1}H-NMR SHIFT REAGENT FOR ALKALOIDS

J. Schripsema, R. Verpoorte and A. Baerheim Svendsen.
Department of Pharmacognosy, Center for Bio-Pharmaceutical Sciences, Leiden University, Gorlaeus Laboratories, P.O. Box 9502, 2300 RA Leiden, the Netherlands.

Acidic impurities may change the ^{1}H-NMR spectra of alkaloids drastically. The acid-induced shifts, as observed in the ^{1}H-NMR spectra of apparicine (1) and 16-epi-isositsirikine (2), might be a useful tool in the structure-elucidation of alkaloids.

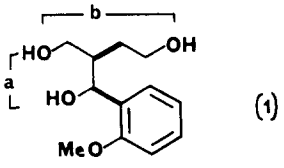


Tet.Lett.,27,22,2539 (1986)

6- vs 7- RING SELECTIVITY DURING ACETAL FORMATION

Andrew G. Brewster* and Alison Leach
Department of Chemistry, ICI Pharmaceuticals Division
Alderley Park, Macclesfield, Cheshire, SK10 4TG, UK.

Acid-catalysed ring closure of (1) using 1,1-diethoxyethane gave only 1,3-dioxane formation (via closure (a)), whereas use of 2,2-dimethoxypropane resulted in concomitant 1,3-dioxepane formation (via closure (b)).



(1)

Tet.Lett.,27,22,2543 (1986)

ENZYMIC OPTICAL RESOLUTION AND ABSOLUTE CONFIGURATION OF TRICYCLO[5.2.1.0^{2,6}]DECADIENONES

A.J.H. Klunder, W.B. Huizinga, A.J.M. Hulshof and B. Zwanenburg*
Department of Organic Chemistry, University of Nijmegen, Toernooiveld
6525 ED NIJMEGEN, The Netherlands