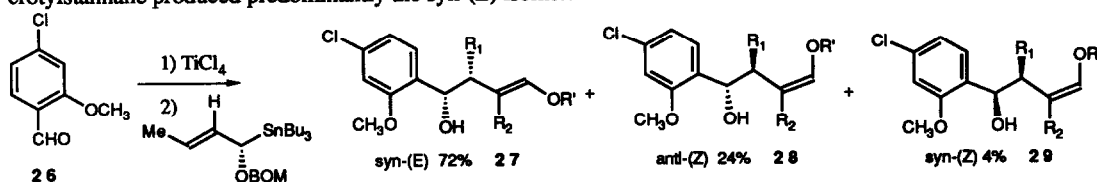


GRAPHICAL ABSTRACTS

Tetrahedron, 1992, 48, 5455

Evidence for Synclinal Transition State in the Reactions of Aromatic Aldehydes with α -(Alkoxy)allylstannanes

Benjamin W. Gung*, Daniel T. Smith, Mark A. Wolf Department of Chemistry, Miami University, Oxford, Ohio 45056 Unlike $\text{BF}_3 \cdot \text{Et}_2\text{O}$, in the presence of TiCl_4 , the reaction of *p*-chloro-*o*-methoxybenzaldehyde with α -(alkoxy)crotylstannane produced predominantly the syn-(E) isomer.

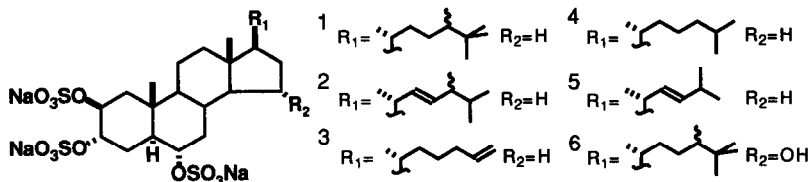


Tetrahedron, 1992, 48, 5467

Halistanol Sulfates A-E, New Steroid Sulfates, from a Marine Sponge, *Epipolasis* sp.¹

Satoshi Kanazawa,² Nobuhiro Fusetani,* and Shigeki Matsunaga Laboratory of Marine Biochemistry, Faculty of Agriculture, The University of Tokyo, Bunkyo-ku, Tokyo 113 (Japan)

Five new steroid sulfates 2-6 related to halistanol sulfate (1) were isolated along with halistanol sulfate from a marine sponge, *Epipolasis* sp. Their structures were determined by spectral data. Absolute stereochemistry of halistanol sulfate was determined by applying a modified Mosher's method to halistanol, an acid hydrolysis product of halistanol sulfate.

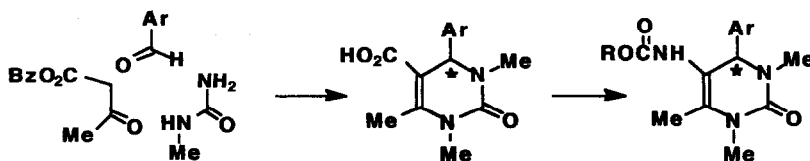


Tetrahedron, 1992, 48, 5473

Synthesis and Reactions of Biginelli Compounds-5. Facile Preparation and Resolution of a Stable 5-Dihydropyrimidinocarboxylic Acid.

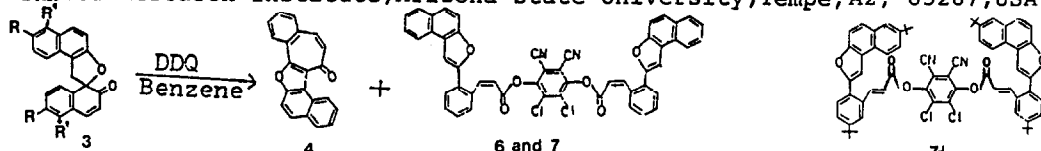
C.O.Kappe, G.Uray*, P.Roschger, W.Lindner, Ch.Kratky, W.Keller -Institute of Organic Chemistry, Karl-Franzens University, A-8010 Graz, Austria.

Synthesis of the racemates of the dihydropyrimidinocarboxylic acids is described via Biginelli condensation, N-methylation and hydrogenolysis of the benzylester. Resolution and Curtius rearrangement lead to enantiomerically pure urethanes.



Oxidation of Spiroketones with DDQ-Synthesis of Tropones Derivatives and DDHQ Diesters.

Tirumalai R.Kasturi^a, Palle V.P.Pragnacharyulu^a, Gouravaram M.Reddy^a,
Srirangam K.Jayaram^a, Sheo B.Singh^b. Department of Organic Chemistry,
Indian Institute of Science, Bangalore-560012, INDIA.
^bCancer Research Institute, Arizona State University, Tempe, Az, 85287, USA.

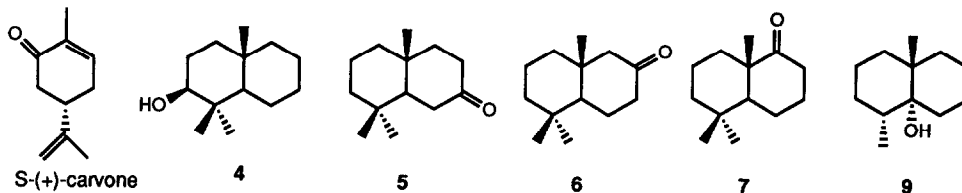


Oxidation of Spiroketones 3 with DDQ gave tropones 4 and DDHQ diesters 6 and 7. Mechanism of formation and syntheses of these compounds are discussed. 2D NMR studies of compound 7d led to complete assignment of ¹H and ¹³C NMR signals and its solution conformation.

THE SYNTHESSES OF CHIRAL DECALONES, (-)-1,1,4a-TRIMETHYL-2-DECALOL AND (+)-GEOSMIN FROM S-(+)-CARVONE (PART 3).

Henk J. Swarts, Anja A. Haaksma, Ben J.M. Jansen and Aede de Groot*

Laboratory of Organic Chemistry, Agricultural University, Dreijenplein 8, 6703 HB Wageningen, The Netherlands.

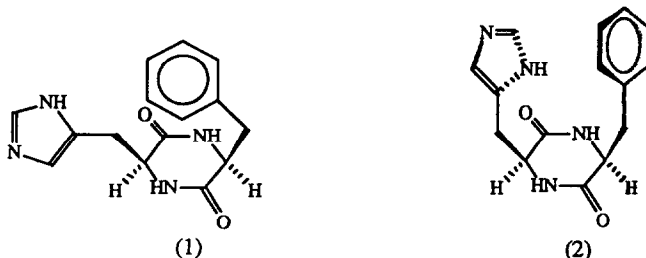


Compounds 4-9 have been synthesized using S-(+)-carvone as chiral starting material.

A CONFORMATIONAL STUDY ON CYCLO[(S)-PHENYLALANYL-(S)-HISTIDYL] BY MOLECULAR MODELLING AND NMR TECHNIQUES

Michael North

Department of Chemistry, University of Wales, Bangor, Gwynedd, LL57 2UW

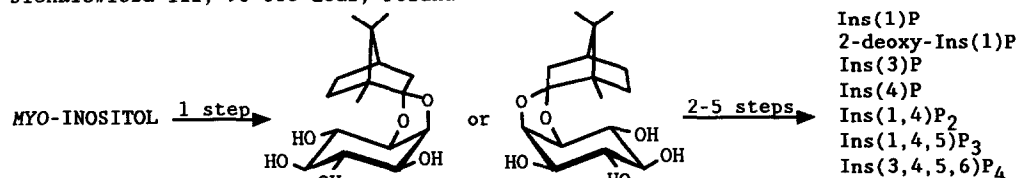


The conformation of the title dipeptide is investigated by molecular modelling and nmr. Evidence for the presence of two conformations is presented, a folded structure (1), and a U shaped structure (2).

THE SYNTHESIS OF HOMOCHIRAL INOSITOL PHOSPHATES FROM MYO-INOSITOL

K. M. Pietrusiewicz, G. M. Salamonczyk, K. S. Bruzik, Wanda Wieczorek

Centre of Molecular and Macromolecular Studies, The Polish Academy of Sciences,
Sienkiewicza 112, 90-363 Łódź, Poland



Above selfresolving tetrols and are converted into a number of inositol phosphates by the concise procedures featuring regioselective mono-, bis-, and tris-protection of these tetrols in the key steps.

Model Studies for Damage to Nucleic Acids Mediated by Thiyl Radicals.

Jonathan Griffiths and John A. Murphy*, Department of Chemistry, University of Nottingham, Nottingham NG7 2RD.

The ability of phenylthiovinyl radicals to abstract hydrogen from appropriately substituted carbon atoms has been studied as a model for the reactions of the deoxyribose units of DNA with similar radicals in vivo.

