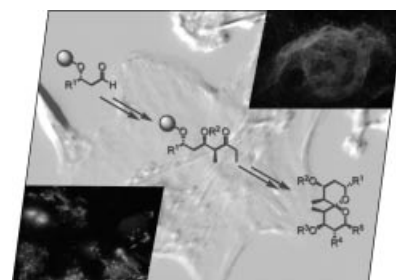


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COVER PICTURE

The cover picture shows the stereoselective solid-phase synthesis of highly substituted spiroketal molecules. Asymmetric aldol reactions on a solid phase are the key steps involved in this synthetic route. Both resin-bound β -hydroxy aldehydes and boron enolates were employed for *syn*- and *anti*-aldol reactions, respectively. Out of this small collection of spiroacetals, some molecules showed activities against tubulin polymerization. The effect of two different spiroketals at a concentration of 5 μM on the tubulin cytoskeleton is shown in the picture (top right and bottom left). Furthermore, some spiroketals were found to be phosphatase inhibitors. Details are discussed in the article by H. Waldmann et al. on p. 4773 ff.



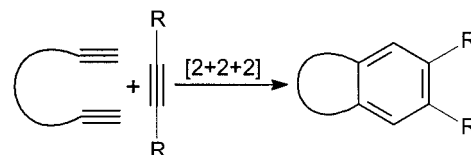
MICROREVIEW

Contents

4741 S. Kotha,* E. Brahmachary, K. Lahiri

Transition Metal Catalyzed [2+2+2] Cycloaddition and Application in Organic Synthesis

Keywords: Cyclotrimerization / Heterocycles / Polycycles / Strained molecules / Transition metals

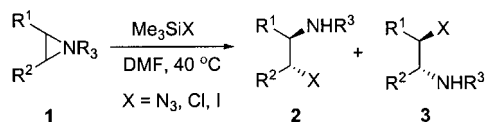


SHORT COMMUNICATION

4769 J. Wu,* X. Sun, H.-G. Xia

Ring Opening of Aziridines with Silylated Nucleophiles under Neutral Conditions

Keywords: Aziridine / Ring-opening / DMF / Silylated nucleophiles



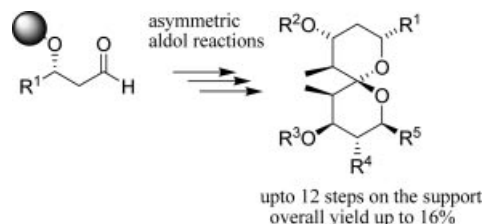
FULL PAPERS

4773 O. Barun, K. Kumar, S. Sommer,
A. Langerak, T. U. Mayer, O. Müller,
H. Waldmann*



Natural Product-Guided Synthesis of a Spiroacetal Collection Reveals Modulators of Tubulin Cytoskeleton Integrity

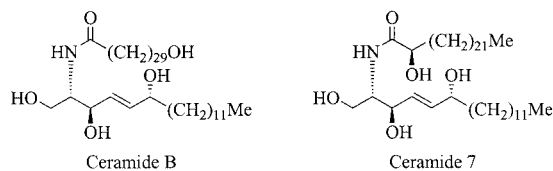
Keywords: Asymmetric synthesis / Chemical biology / Natural products / Solid-phase synthesis / Spiroketales



4789 Y. Masuda, K. Mori*

Synthesis and Absolute Configuration of 6-Hydroxylated New Ceramides in Human Skin, Ceramides B, 4, 7 and 8

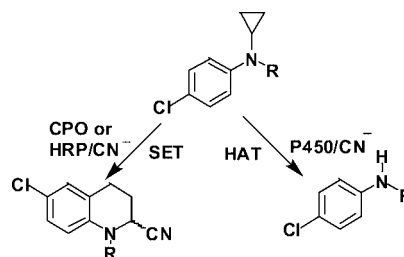
Keywords: Amino alcohols / Ceramides / Configuration determination / Sphingolipids



4801 M. N. Bhakta, K. Wimalasena*

A Mechanistic Comparison between Cytochrome P₄₅₀- and Chloroperoxidase-Catalyzed *N*-Dealkylation of *N,N*-Dialkyl Anilines

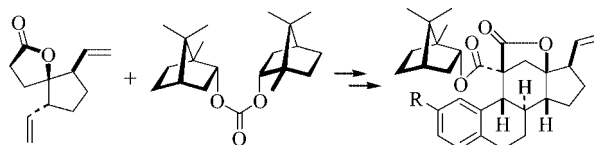
Keywords: Cytochrome P₄₅₀ / Chloroperoxidase / Horseradish peroxidase / Enzyme catalysis / Hydrogen abstraction / Single electron abstraction / *N*-Dealkylation



4806 S. Wilmouth, A.-C. Durand, S. Goretta,
C. Ravel, D. Moraleda, M. Giorgi,
H. Pellissier, M. Santelli*

Lactone Kinetic Resolution by Acylation – Application to the Enantioselective Synthesis of Estrane Derivatives

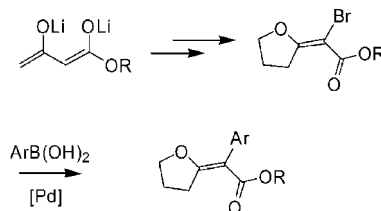
Keywords: Steroids / Acylation / Kinetic resolution / Asymmetric synthesis / Chiral pool



4815 E. Bellur, P. Langer*

Synthesis of Functionalized 2-Alkylidene-tetrahydrofurans Based on a [3+2] Cyclization/Bromination/Palladium(0) Cross-Coupling Strategy

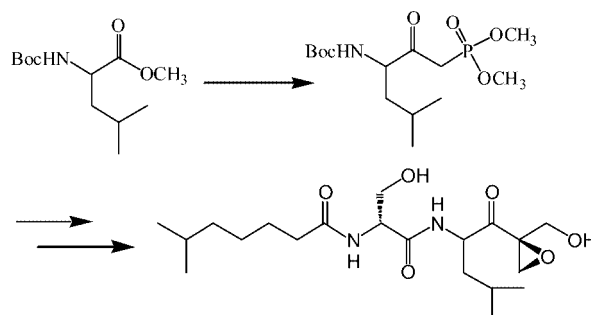
Keywords: Bromination / Cross-coupling / Palladium / Pyrrolidines / Tetrahydrofurans



4829 A. Ho, K. Cyrus, K.-B. Kim*

Towards Immunoproteasome-Specific Inhibitors: An Improved Synthesis of Dihydroepone-mycin

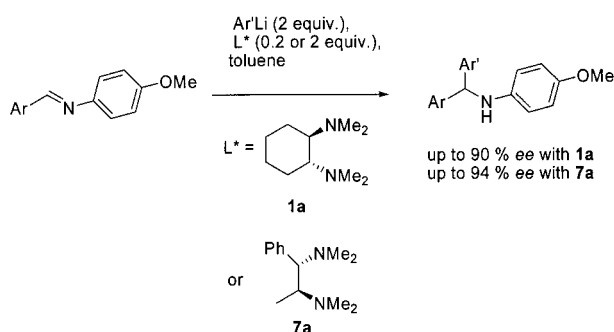
Keywords: Immunoproteasome / Dihydroepone-mycin / Phosphonate / Wittig–Horner reaction / Baylis–Hillman reaction



4835 N. Cabello, J.-C. Kizirian, S. Gille, A. Alexakis,* G. Bernardinelli, L. Pinchard, J.-C. Caille

Simple 1,2-Diamine Ligands for Asymmetric Addition of Aryllithium Reagents to Imines

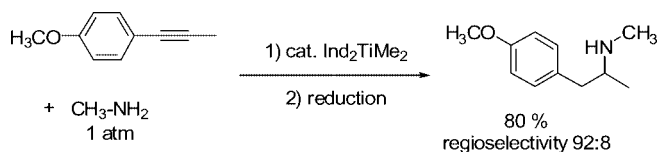
Keywords: Diamines / Asymmetric 1,2-addition / Imines / Organolithium compounds



4843 K. Marcseková, B. Wegener, S. Doye*

Ind₂TiMe₂-Catalyzed Addition of Methyl- and Ethylamine to Alkynes

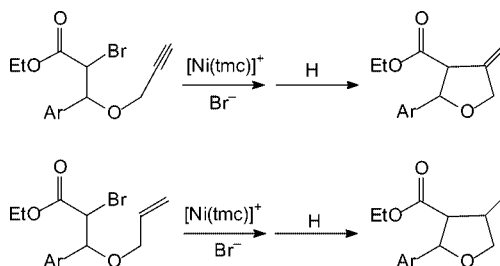
Keywords: Alkynes / Amines / Homogeneous catalysis / Hydroamination / Titanium



4852 A. P. Esteves, D. M. Goken, L. J. Klein, L. F. M. Leite, M. J. Medeiros, D. G. Peters*

Electroreductive Radical Cyclization of Ethyl 2-Bromo-3-allyloxy and -3-(propargyloxy)propanoates Catalyzed by (Tetramethylcyclam)nickel(I) Electrogenated at Carbon Cathodes in Dimethylformamide

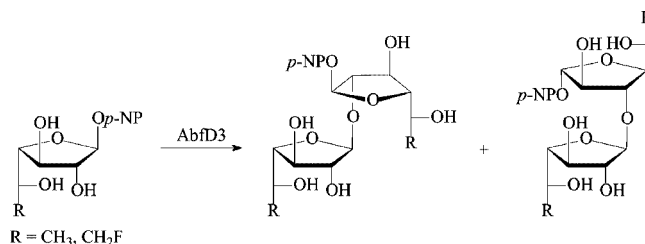
Keywords: Electroreduction / Intramolecular cyclization / Redox catalysis / (Tetramethylcyclam)nickel(I) / Bromo propargyloxy ester / Bromo allyloxy ester



- 4860 R. Euzen, G. Lopez, C. Nugier-Chauvin,*
V. Ferrières,* D. Plusquellec, C. Rémond,
M. O'Donohue



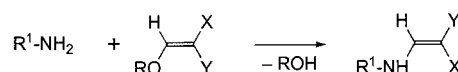
A Chemoenzymatic Approach for the Synthesis of Unnatural Disaccharides Containing D-Galacto- or D-Fucofuranosides



Keywords: Glycofuranosides / α -L-Arabinofuranosidase / Oligosaccharides / Carbohydrates / Enzymes / Enzymatic glycosylation

- 4870 J. Saloň, V. Milata,* A. Gaťal,
N. Prónayová, J. Leško, P. Černuchová,
Z. Rappoport, G. Vo-Thanh, A. Loupy

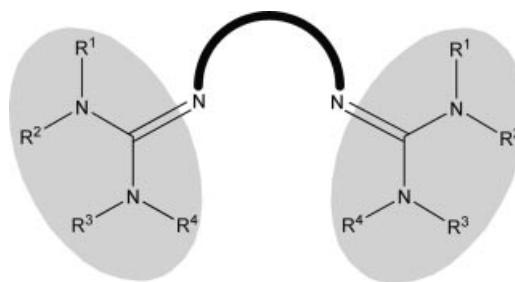
Nucleophilic Vinylic Substitution (S_NV) of Activated Alkoxyethylene Derivatives with 6-Aminoquinoxaline



Keywords: Nucleophilic vinylic substitution (S_NV) mechanism / Enol ethers / Alkoxyethylene compounds / Quinoxalines / Molecular calculations

- 4879 S. Herres-Pawlis, A. Neuba, O. Seewald,
T. Seshadri, H. Egold, U. Flörke, G. Henkel*

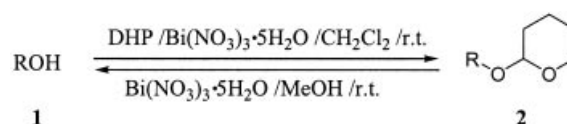
A Library of Peralkylated Bis-guanidine Ligands for Use in Biomimetic Coordination Chemistry



Keywords: Nitrogen donor ligands / Guanidine ligands / Ligand design

- 4891 A. T. Khan,* S. Ghosh, L. H. Choudhury

A Highly Efficient Synthetic Protocol for Tetrahydropyranylation/Depyranylation of Alcohols and Phenols

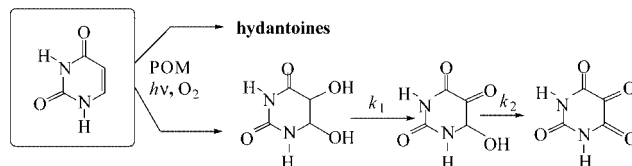


Keywords: Tetrahydropyranylations / Alcohols / Phenols / Bismuth(III) nitrate pentahydrate / Synthetic methods

4897 M. Bonchio,* M. Carraro, V. Conte,
G. Scorrano



Aerobic Photooxidation in Water by Polyoxo-
tungstates: The Case of Uracil



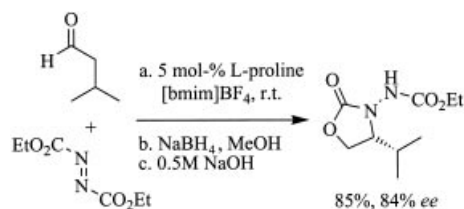
H_2O (pH = 1), O_2 (1 atm), $\lambda > 300$ nm, $25^\circ C$

Keywords: Photooxidation / Polyoxometalates / Alco-
hols / Uracil / Dioxygen

POM = $[PW_{12}O_{40}]^{3-}$, $[W_{10}O_{32}]^{4-}$, $[WZn_3(H_2O)_2(ZnW_9O_{34})_2]^{12-}$

4904 P. Kotrusz, S. Alemayehu, Š. Toma,*
H.-G. Schmalz, A. Adler

Enantioselective Organocatalysis in Ionic
Liquids: Addition of Aliphatic Aldehydes and
Ketones to Diethyl Azodicarboxylate



Keywords: Organocatalysis / Ionic liquids / Proline /
Asymmetric catalysis / Addition reactions



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