



Tetrahedron Vol. 67, Issue 3, 2011

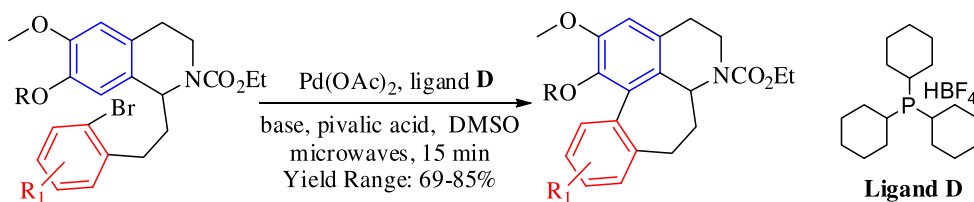
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ARTICLES

Synthesis of C-homooporphines via microwave-assisted direct arylation

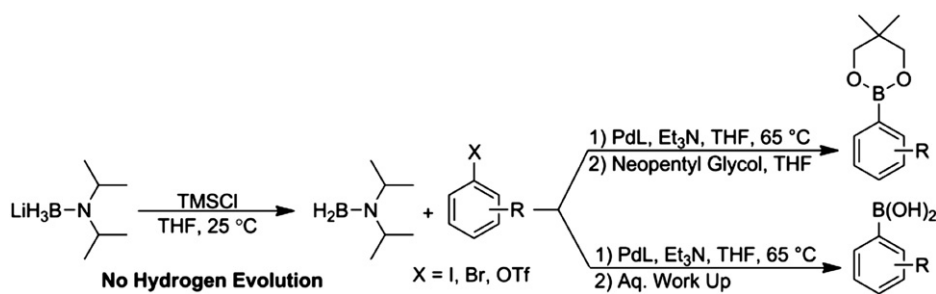
pp 569–575

Sandeep Chaudhary, Wayne W. Harding*

**Lithium aminoborohydrides 17. Palladium catalyzed borylation of aryl iodides, bromides, and triflates with diisopropylaminoborane prepared from lithium diisopropylaminoborohydride**

pp 576–583

Dustin Haddenham, Christopher L. Bailey, Chau Vu, Gabby Nepomuceno, Scott Eagon, Lubov Pasumansky, Bakthan Singaram*



pp 584–589

Chemical reaction scheme showing the synthesis of benzoxanthenes. The reaction involves the coupling of a naphthalene-2-carbaldehyde derivative (middle-left) and a 1,3-dithione derivative (middle-right, highlighted in a green box) using InCl_3 in urea solvent-free conditions to form a benzoxanthene derivative (right). The starting material on the left is a benzoxanthene derivative.

pp 590–596

Reaction scheme showing the synthesis of a bicyclic compound:

Starting material: 2-methyl-2-methylidenecyclopropanecarbonitrile (labeled with a red **N**).

Reagents and conditions:

- 4-methylphenylmagnesium bromide (4-Me-C₆H₄-MgBr, labeled with blue **Me** and blue **MgBr**)
- PhI(OAc)₂
- Et₂O, 60 °C (sealed tube)
- DMF, rt

Product: A bicyclic compound (labeled with blue **Br** and blue **Me**), which is a 1,2-dimethyl-3-(4-methylphenyl)-2-oxobicyclo[3.1.0]hexane derivative.

pp 597–607

The reaction scheme illustrates the synthesis of a macrocyclic complex. It begins with a 1,2,4-triazole derivative (left) reacting with a bromomethyl-substituted pyridine derivative (middle) to form a macrocyclic complex (right). The complex features a central Eu(III) ion coordinated by three macrocyclic ligands and a phenylamine group.

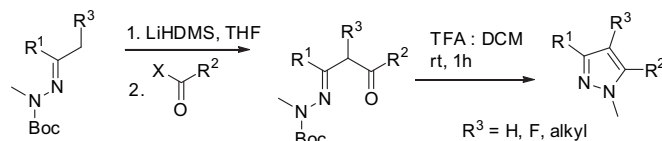
pp 608–611

Chemical reaction scheme showing the synthesis of a tricyclic compound. The reaction involves a benzothiophene derivative (with a 'WG' group at the 3-position) reacting with a substituted isoxazole derivative (with substituents Me, R¹, R², and an O⁻ group). The reaction conditions are Ac₂O/dioxane. The product is a complex tricyclic molecule where the benzothiophene and isoxazole rings are fused to a central five-membered ring containing a sulfur atom and a nitrogen atom with a methyl group. The 'WG' group is now part of a five-membered ring fused to the benzothiophene system.

Regioselective synthesis of 1,3,5- and 1,3,4,5-substituted pyrazoles via acylation of *N*-Boc-*N*-substituted hydrazones

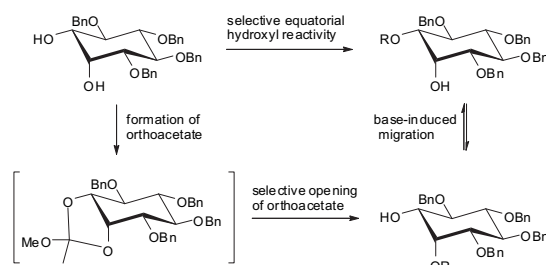
pp 612–617

Alessandro Tinarelli, Paolo Righi*, Goffredo Rosini, Daniele Andreotti*, Roberto Profeta, Simone Spada

**Efficient regioselective protection of *myo*-inositol via facile protecting group migration**

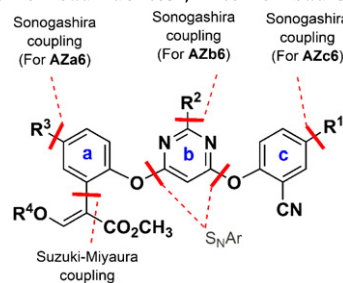
pp 618–623

Comfort M. Nkambule*, Nomfundo W. Kwezi, Henok H. Kinfe, Mbulelo G. Nokwequ, David W. Gammon, Stefan Oscarson, Erik Karlsson

**Concise and modular synthesis of regioisomeric haptens for the production of high-affinity and stereoselective antibodies to the strobilurin azoxystrobin**

pp 624–635

Javier Parra, Josep V. Mercader, Consuelo Agulló, Antonio Abad-Fuentes*, Antonio Abad-Somovilla*

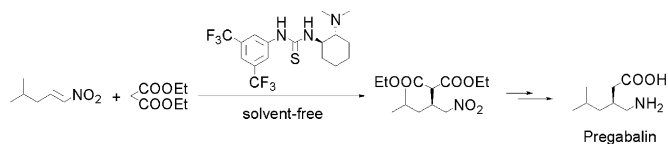


Functionalized regioisomeric haptens of azoxystrobin have been prepared following a modular synthetic strategy, and high-affinity and stereoselective antibodies have been generated thereof.

**Solvent-free organocatalytic Michael addition of diethyl malonate to nitroalkenes: the practical synthesis of Pregabalin and γ -nitrobutyric acid derivatives**

pp 636–640

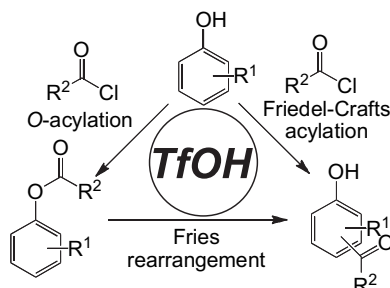
Jin-ming Liu, Xin Wang, Ze-mei Ge, Qi Sun, Tie-ming Cheng, Run-tao Li*



Comparisons of O-acylation and Friedel–Crafts acylation of phenols and acyl chlorides and Fries rearrangement of phenyl esters in trifluoromethanesulfonic acid: effective synthesis of optically active homotyrosines

pp 641–649

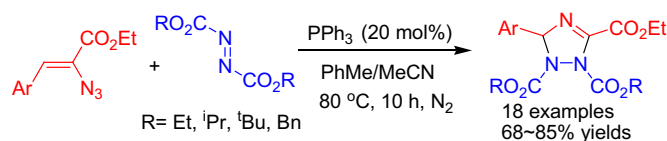
Ryo Murashige, Yuka Hayashi, Syo Ohmori, Ayuko Torii, Yoko Aizu, Yasuyuki Muto, Yuta Murai, Yuji Oda, Makoto Hashimoto*



Facile synthesis of 1,2,4-triazolines via PPh₃-triggered reaction of azodicarboxylate with 2-azidoacrylates

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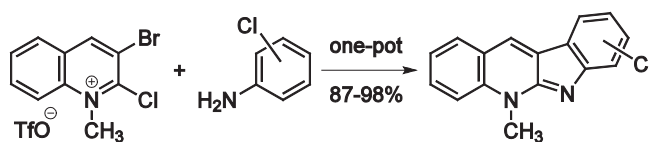
Deng Hong, Yuanxun Zhu, Xufeng Lin*, Yanguang Wang*



Highly efficient one-pot synthesis of D-ring chloro-substituted neocryptolepines via a condensation–Pd-catalyzed intramolecular direct arylation strategy

pp 655–659

Steven Hostyn, Kourosch Abbaspour Tehrani, Filip Lemièrre, Veerle Smout, Bert U.W. Maes*



*Corresponding author

+ Supplementary data available via ScienceDirect



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