



Tetrahedron Letters Vol. 50, No. 35, 2009

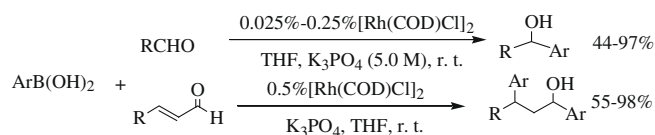
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COMMUNICATIONS

Rh(I)/diene-catalyzed addition reactions of aryl/alkenylboronic acids with aldehydes

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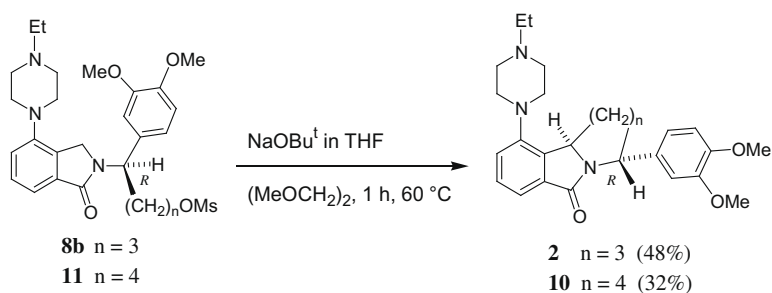
Chun-Hui Xing, Tao-Ping Liu, Jin Rong Zheng, Jaclynn Ng, Michelle Esposito, Qiao-Sheng Hu *



Generation of novel, potent urotensin-II receptor antagonists by alkylation–cyclization of isoindolinone C3-carbanions

pp 4958–4961

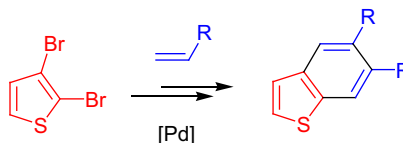
Diane K. Luci, Edward C. Lawson, Shyamali Ghosh, William A. Kinney, Charles E. Smith, Jenson Qi, Yuanping Wang, Lisa K. Minor, Bruce E. Maryanoff *



Synthesis of functionalized benzothiophenes by twofold Heck and subsequent 6 π -electrocyclization reactions of 2,3-dibromothiophene

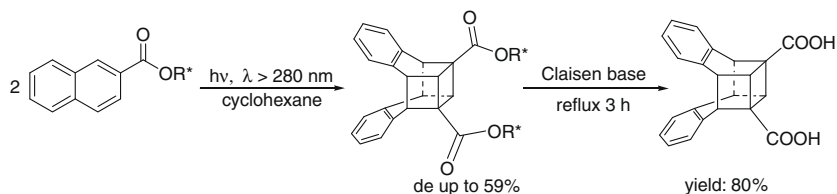
pp 4962–4964

Serge-Mithérand Tengho Toguem, Munawar Hussain, Imran Malik, Alexander Villinger, Peter Langer *

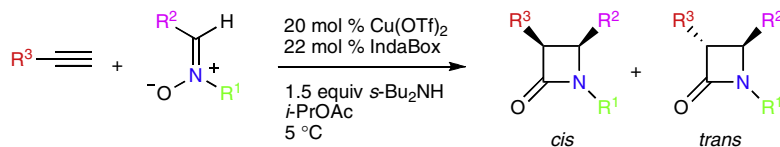


Diastereodifferentiating photodimerization of alkyl 2-naphthoates with chiral auxiliaries

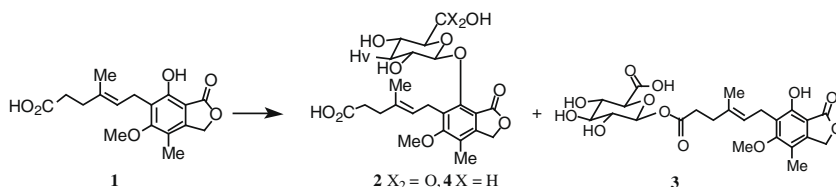
pp 4965–4968

Hong-Xia Xu, Bin Chen, Li-Ping Zhang, Li-Zhu Wu^{*}, Chen-Ho Tung^{*}**Enantioselective synthesis of β-lactams via the IndaBox–Cu(II)-catalyzed Kinugasa reaction**

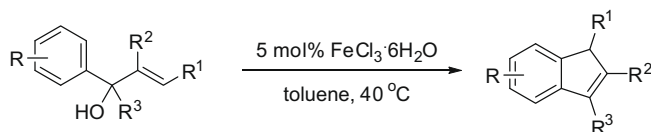
pp 4969–4972

Takao Saito^{*}, Tomohiro Kikuchi, Hiroaki Tanabe, Junichi Yahiro, Takashi Otani^{*}The highest level of enantioselectivity (79–94% ees) was attained in the catalytic Kinugasa reaction using the Cu(OTf)₂–IndaBox complex.**Convenient syntheses of the in vivo carbohydrate metabolites of mycophenolic acid: reactivity of the acyl glucuronide**

pp 4973–4977

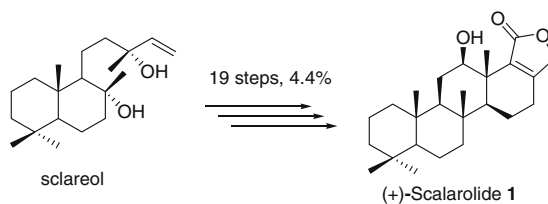
Amy E. Jones, Helen K. Wilson, Paul Meath, Xiaoli Meng, David W. Holt, Atholl Johnston, Michael Oellerich, Victor W. Armstrong, Andrew V. Stachulski^{*}We report effective preparations of the *O*-aryl glucuronide **2** and glucoside **4**, as well as the *O*-acyl glucuronide **3**, of the immunosuppressant agent mycophenolic acid **1**. Heavy metals are avoided in the preparations of **2** and **4** and a careful optimisation of the synthesis of **3** is detailed. Finally we confirm the value of synthetic **3** by comparing its reactivity with that of a biosynthesised sample against a known target protein.**Efficient synthesis of indenenes by FeCl₃·6H₂O-catalyzed intramolecular Friedel–Crafts reaction of aryl-substituted allylic alcohols**

pp 4978–4982

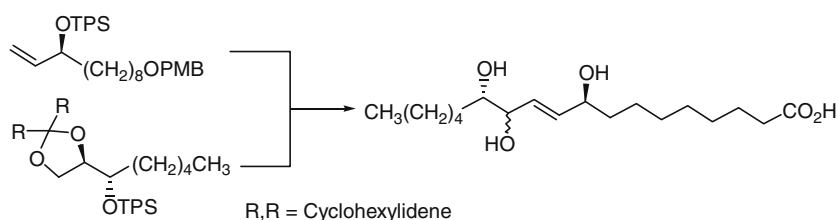
Jialiang Wang, Lixin Zhang, Yufeng Jing, Wen Huang, Xigeng Zhou^{*}

The first synthesis of marine sesterterpene (+)-scalarolide

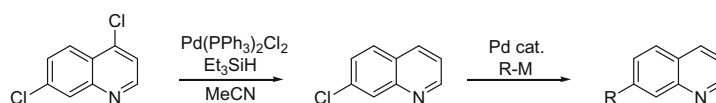
pp 4983–4985

Xiang-Jian Meng, Yang Liu, Wen-Yuan Fan, Bin Hu, Wenting Du^{*}, Wei-Ping Deng^{*}**A chemoenzymatic asymmetric synthesis of (9S,12S,13S)- and (9S,12RS,13S)-pinellic acids**

pp 4986–4988

Anubha Sharma^{*}, Seema Mahato, Subrata Chattopadhyay**7-Chloroquinoline: a versatile intermediate for the synthesis of 7-substituted quinolines**

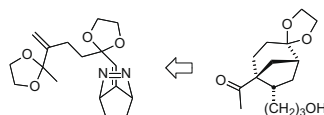
pp 4989–4993

Joshua J. Hirner, Michael J. Zacuto^{*}

A practical synthesis of 7-mono-substituted quinolines has been achieved. Selective reduction of the inexpensive commercial reagent 4,7-dichloroquinoline affords 7-chloroquinoline, which has been converted into more complex 7-mono-substituted quinolines through a series of Pd-catalyzed cross coupling reactions. These studies include the first examples of Suzuki reactions for the preparation of 7-mono-substituted quinolines as well as the first application of the Sonagashira reaction for the synthesis of 7-substituted quinolines. This strategy has been extended to the preparation of 2,7-di-substituted quinolines.

Intramolecular diyl trapping reactions en route to the bicyclo [3.2.1] framework; an approach to aphidicolin

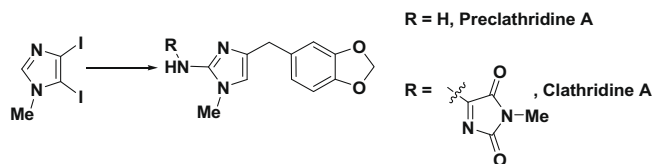
pp 4994–4997

Wei Zhong, R. Daniel Little^{*}

Expedient total syntheses of preclathridine A and clathridine A

pp 4998–5000

Panduka B. Koswatta, Carl J. Lovely *

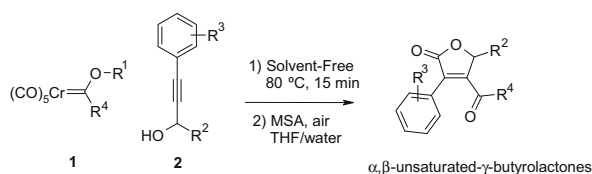


A short and operationally simple total synthesis of the marine alkaloids preclathridine A and clathridine A from a 4,5-diiodoimidazole derivative is described.

Reaction of substituted alkynols with alkoxy carbene complexes of chromium: a facile synthesis of substituted α,β -unsaturated- γ -butyrolactones

pp 5001–5004

Subhabrata Sen *, Kailaskumar Borate, Parag Kulkarni, Nandini R. Pai

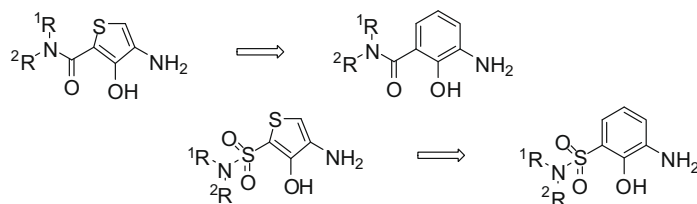


Substituted butyrolactones are synthesized from Fischer chromium carbenes and substituted alkynols in a two-step sequence. This method demonstrates a novel route for the synthesis of this class of molecules.

**Synthesis of functionalized hydroxy-thiophene motifs as amido- and sulfonamido-phenol bioisosteres**

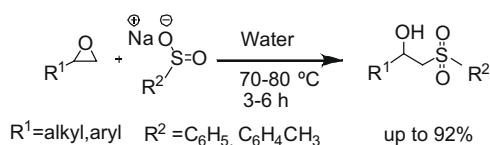
pp 5005–5008

Jianhua Chao *, Arthur G. Taveras, Cynthia J. Aki

**An approach toward the synthesis of β -hydroxy sulfones on water**

pp 5009–5011

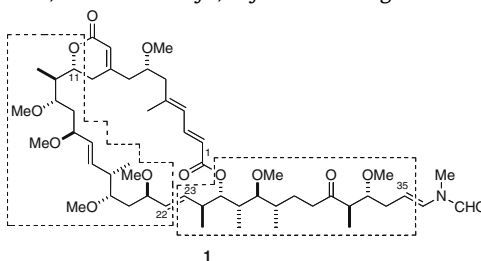
S. Narayana Murthy, B. Madhav, V. Prakash Reddy, K. Rama Rao, Y. V. D. Nageswar *



Synthetic studies on reidispongioidide A, an actin-depolymerizing marine macrolide: synthesis of C11–C22 and C23–C35 segments

pp 5012–5014

Satoshi Akiyama, Eisuke Toriihara, Kazushi Suzuki, Toshiaki Teruya, Kiyotake Suenaga *

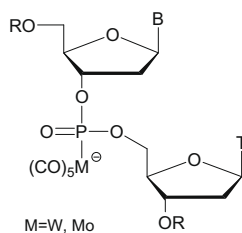


The C11–C22 and C23–C35 segments **2** and **3** of reidispongioidide A (**1**), an actin-depolymerizing marine macrolide, were synthesized enantioselectively in 12 steps from (*R*)-glycidyl trityl ether and in 12 steps from chiral ketone **15**, respectively.

Synthesis of (pentacarbonyl)tungstate(–1) and (pentacarbonyl)molybdate(–1) dinucleotides

pp 5015–5017

Ondrej Pav, Marvin H. Caruthers *

**Excellent correlation between substituent constants and pyridinium *N*-methyl chemical shifts**

pp 5018–5020

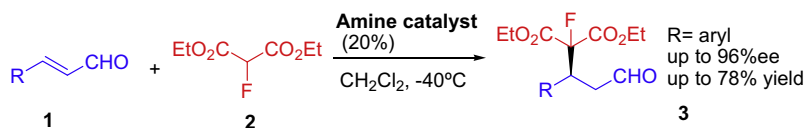
Sha Huang, Jesse C. S. Wong, Adam K. C. Leung, Yee Man Chan, Lili Wong, Myrien R. Fernandez, Amanda K. Miller, Weiming Wu *

Substituents on the pyridinium ring of *N*-methylpyridinium derivatives, especially those on the 2- or 4-position, have a large effect on the ¹H and ¹³C NMR chemical shifts of the *N*-methyl group. Reasonable correlations between the chemical shift changes and the resonance substituent constants are observed. The dual substituent parameter approach provides an excellent correlation when a combination of polar and resonance substituent constants is employed.

Highly enantioselective fluoromalonate addition to α,β-unsaturated aldehydes

pp 5021–5024

Xavier Companyó, Monika Hejnová, Martin Kamlar, Jan Vesely *, Albert Moyano *, Ramon Rios *

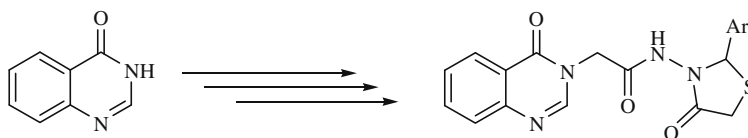


A highly enantioselective organocatalytic fluoromalonate addition to α,β-unsaturated aldehydes is reported. The reaction is catalyzed by simple and commercially available secondary amines, affording the corresponding 1,4-adducts with high yields and enantioselectivities.

An efficient synthetic route for quinazolinyl 4-thiazolidinones

pp 5025–5027

Jyotirling R. Mali, Umesh R. Pratap, Prashant D. Netankar, Ramrao A. Mane *

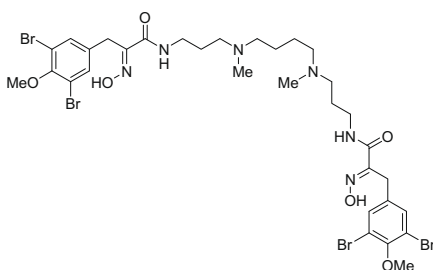


An efficient solvent-free cyclocondensation route for condensing mercaptoacetic acid with quinazolinyl-substituted azomethines has been developed using silica chloride as a catalyst for obtaining heteryl-substituted 4-thiazolidinones. The route is found to be rapid, relatively economical, and eco-friendly. The precursors, quinazolinyl azomethines have been obtained in multisteps starting from quinazolinone.

Total synthesis of the natural isoprenylcysteine carboxyl methyltransferase inhibitor spermatinamine

pp 5028–5030

José García, Raquel Pereira, Angel R. de Lera *

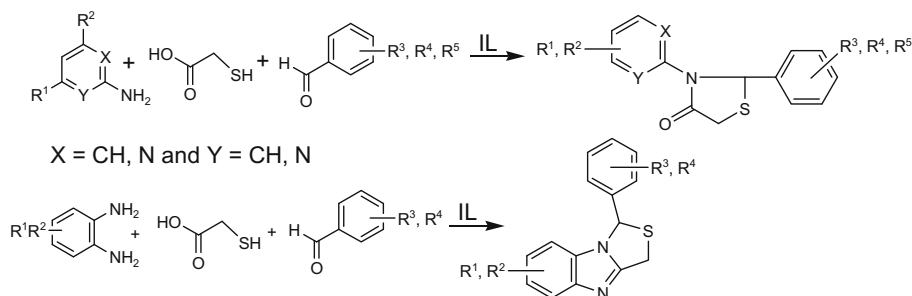


The first total synthesis of spermatinamine, an inhibitor of isoprenylcysteine carboxyl methyltransferase (Icmt) with a bromotyrosine–spermine–bromotyrosine dimeric structure is described.

**An ionic liquid mediated one-pot synthesis of substituted thiazolidinones and benzimidazoles**

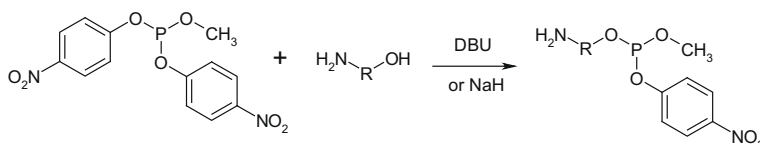
pp 5031–5034

Ashok K. Yadav *, Manoj Kumar, Tripti Yadav, Renuka Jain

**O-Methyl-bis-O-(4-nitrophenyl)phosphite: a novel chemoselective O-phosphitylating reagent**

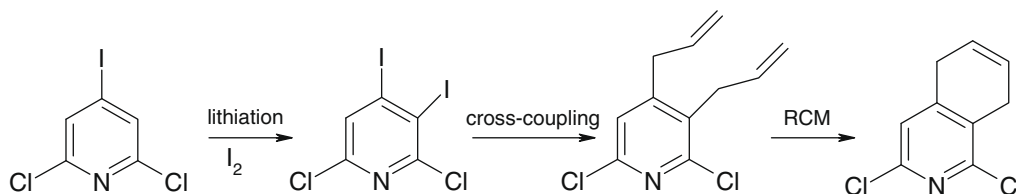
pp 5035–5039

Wojciech Dabkowski *, Łucja Kazimierczak



A straightforward synthesis of 1,3-dichloro-5,8-dihydroisoquinoline by consecutive Stille cross-coupling and metathesis reactions

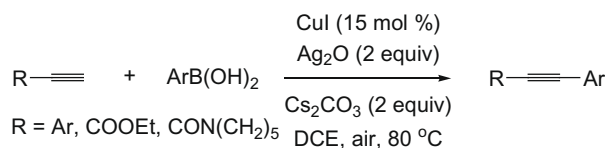
pp 5040–5043

Adri van den Hoogenband^{*}, Jack A. J. den Hartog, Nancy Faber-Hilhorst, Jos H. M. Lange, Jan Willem Terpstra

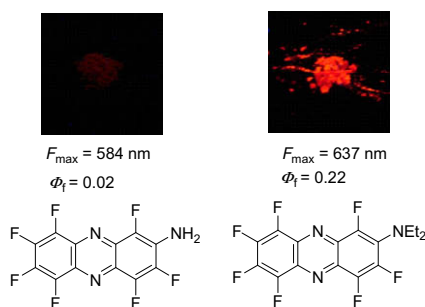
Commercially available 2,6-dichloro-4-iodopyridine is converted into 1,3-dichloro-5,8-dihydroisoquinoline via a novel three-step synthesis.

Ligand-free copper(I)-catalyzed Sonogashira-type coupling of arylboronic acids with terminal alkynes

pp 5044–5046

Changduo Pan, Fang Luo, Wenhui Wang, Zhishi Ye, Jiang Cheng^{*}**Red solid-state fluorescent aminoperfluorophenazines**

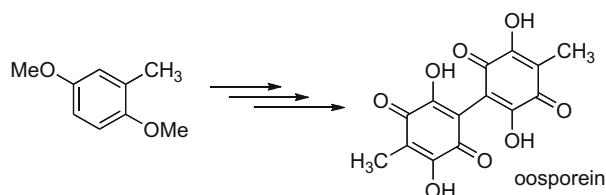
pp 5047–5049

Masaki Matsui^{*}, Rie Ikeda, Yasuhiro Kubota, Kazumasa Funabiki

First perfluoroaromatic red solid-state fluorescent compounds.

**An efficient synthesis of oosporein**

pp 5050–5052

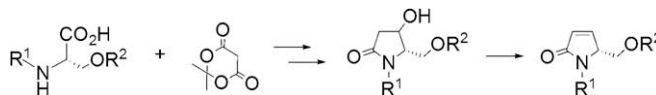
Brian E. Love^{*}, Jeffrey Bonner-Stewart, Lori A. Forrest

Oosporein is prepared in four steps and 24% overall yield from 2,5-dimethoxytoluene.

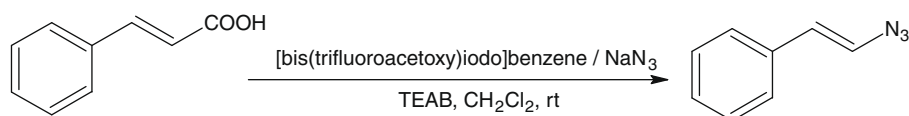


Facile synthesis of unsaturated pyroglutaminol derivatives

pp 5053–5055

Makoto Oba^{*}, Chihiro Ito, Takahiro Hayashi, Kozaburo Nishiyama**Simple and facile method for the preparation of vinyl azides**

pp 5056–5058

Vikas N. Telvekar^{*}, Balaram S. Takale, Harshal M. Bachhav**OTHER CONTENT**

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^{*}Corresponding author

Supplementary data available via ScienceDirect

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