



Tetrahedron Vol. 66, Issue 13, 2010

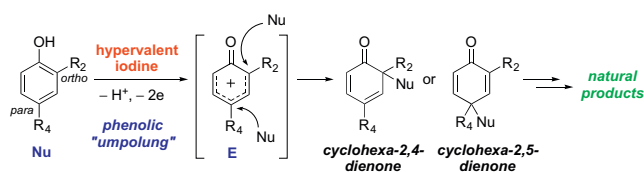
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REPORT

Hypervalent iodine-mediated phenol dearomatization in natural product synthesis

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Laurent Pouységu, Denis Deffieux, Stéphane Quideau*

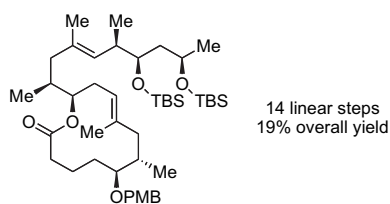


ARTICLES

Scalable and efficient synthesis of the mycolactone core

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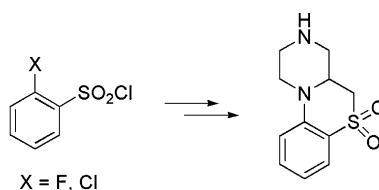
Katrina L. Jackson, Wenju Li, Chi-Li Chen, Yoshito Kishi*



Efficient syntheses of 1,2,3,4,4a,5-hexahydro-pyrazino[2,1-c][1,4]benzothiazine-6,6-dioxide

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Ronald C. Bernotas*, Rebecca J. Dooley

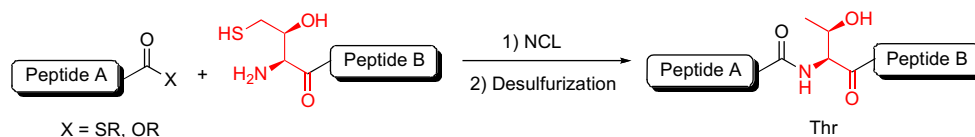


Expeditious routes to 1,2,3,4,4a,5-hexahydro-pyrazino[2,1-c][1,4]benzothiazine-6,6-dioxide, a methylenesulfone-constrained arylpiperazine, have been developed. The key step forms the tricyclic system in a cascade of reactions via a 1,4-addition, nitrogen alkylation, and aromatic substitution sequence.

A program for ligation at threonine sites: application to the controlled total synthesis of glycopeptides

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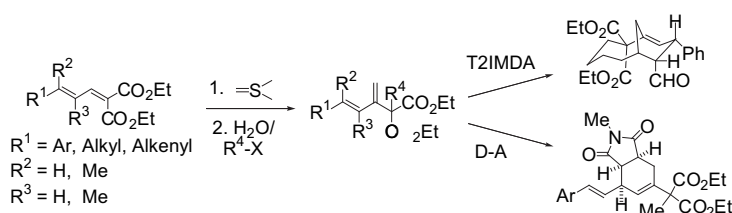
Jin Chen, Ping Wang, Jianglong Zhu, Qian Wan, Samuel J. Danishefsky*



A dimethylsulfonium methylide mediated highly regioselective olefination of conjugated polyolefin 1,1-dioates to conjugated polyene-2-yl-malonates and their applications in Diels–Alder reactions

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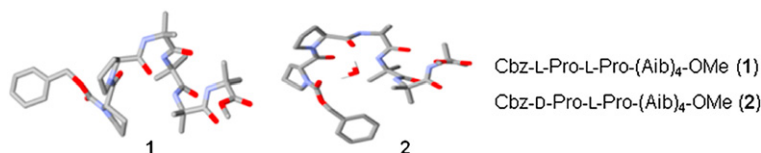
Rekha Singh, Sunil K. Ghosh*



Solid-state conformation of diastereomeric -Pro-Pro-(Aib)₄ sequences

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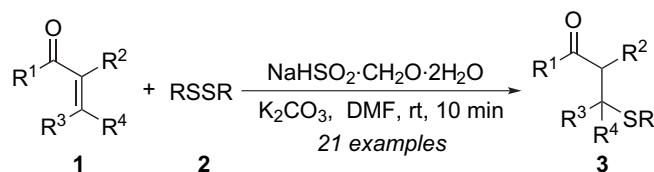
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Rongalite[®] and base-promoted cleavage of disulfides and subsequent Michael addition to α,β -unsaturated ketones/esters: an odorless synthesis of β -sulfido carbonyl compounds

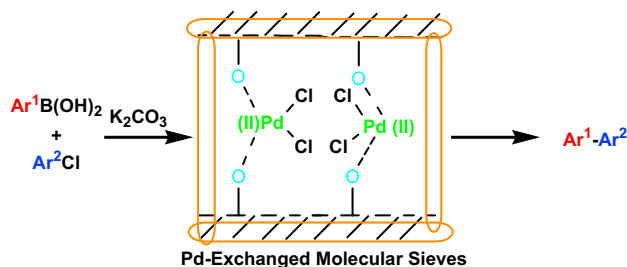
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Wenxue Guo, Guangshu Lv, Jiuxi Chen*, Wenxia Gao, Jinchang Ding, Huayue Wu*


Molecular sieves-supported palladium(II) catalyst: Suzuki coupling of chloroarenes and an easy access to useful intermediates for the synthesis of irbesartan, losartan and boscalid

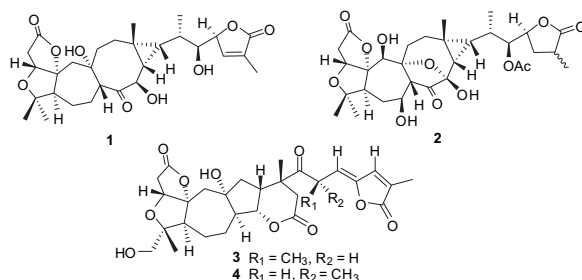
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Raju Dey, Bojja Sreedhar, Brindaban C. Ranu*


Pre-schisanartanins C–D and propintrialactones A–B, two classes of new nortriterpenoids from *Schisandra propinqua* var. *propinqua*

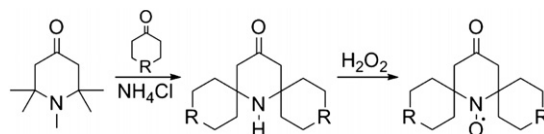
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Chun Lei, Wei-Lie Xiao, Sheng-Xiong Huang, Ji-Jun Chen, Jian-Xin Pu*, Han-Dong Sun*


Effective 2,6-substitution of piperidine nitroxyl radical by carbonyl compound

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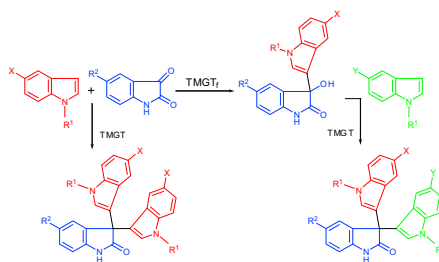
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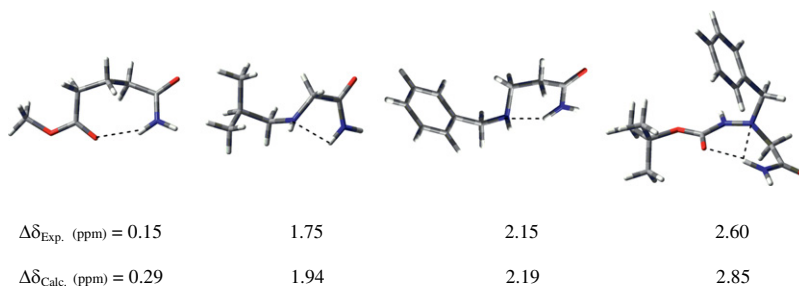
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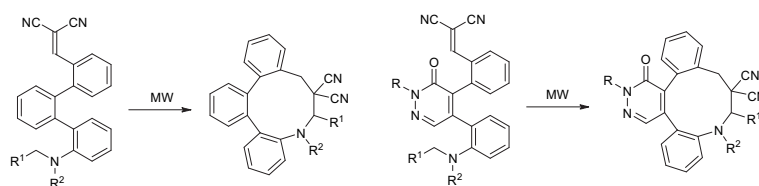
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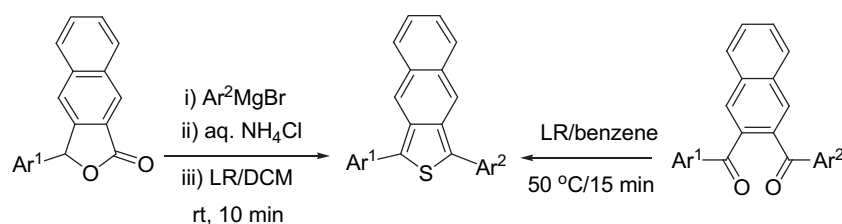
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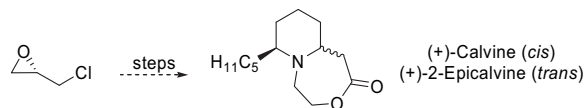
J. Arul Clement, Arasambattu K. Mohanakrishnan*



Synthesis of 2,6-disubstituted piperidine alkaloids from ladybird beetles *Calvia 10-guttata* and *Calvia 14-guttata*

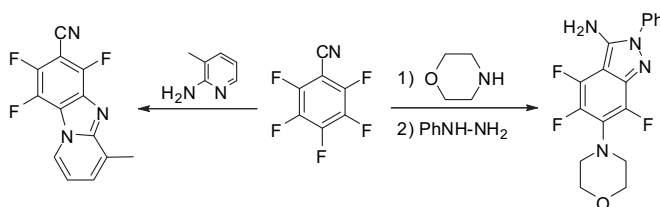
pp 2351–2355

Peter Kubizna, Ivan Špánik, Jozef Kožíšek, Peter Szolcsányi*

**Annulation reactions of pentafluorobenzonitrile**

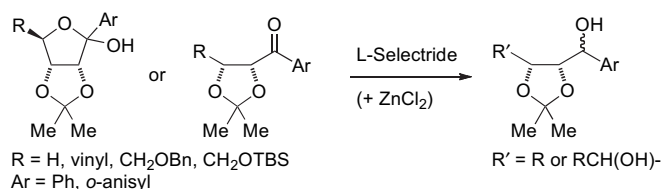
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Matthew R. Cargill, Katharine E. Linton, Graham Sandford*, Dmitrii S. Yufit, Judith A.K. Howard

**Aspects of stereocontrol in the L-Selectride reduction of 4-acyl-1,3-dioxolane derivatives**

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Jeremy Robertson*, William P. Unsworth, Scott G. Lamont

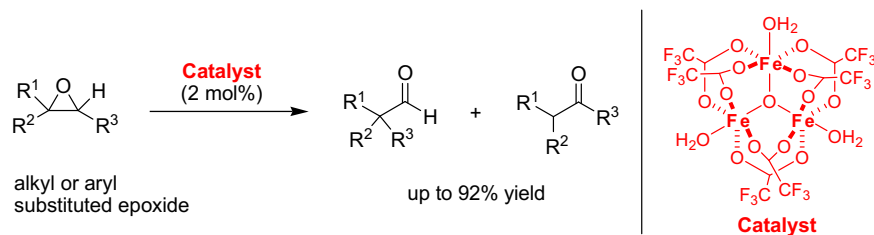


The influence of added ZnCl_2 on the illustrated reductions is shown to be highly dependent on the nature of both the substrate (ketone or lactol) and the Ar group.

Efficient rearrangement of epoxides catalyzed by a mixed-valent iron trifluoroacetate $[\text{Fe}_3\text{O}(\text{O}_2\text{CCF}_3)_6(\text{H}_2\text{O})_3]$

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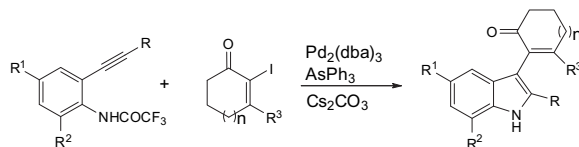
Erkan Ertürk*, Mehmet Göllü, Ayhan S. Demir*



3-(2-Alken-1-one-2-yl)indoles through the palladium-catalyzed reaction of 2-alkynyltrifluoroacetanilides with cyclic α -iodoenones

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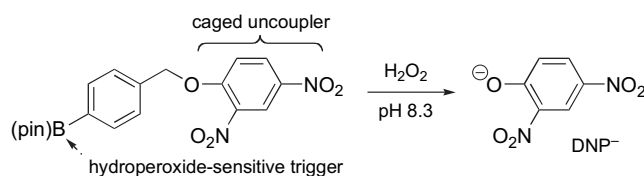
Antonio Arcadi, Roberto Ciani, Giovanni Ferrara, Fabio Marinelli*



Caged mitochondrial uncouplers that are released in response to hydrogen peroxide

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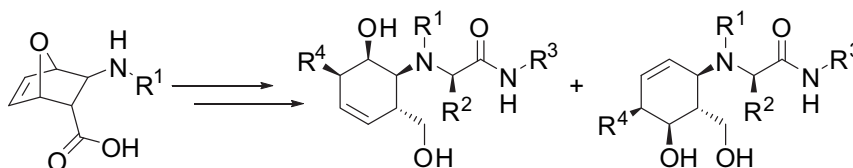
Caroline Quin, Linsey Robertson, Stephen J. McQuaker, Nicholas C. Price, Martin D. Brand, Richard C. Hartley*



Straightforward stereoselective synthesis of polyfunctionalised cyclohexenols using a multicomponent approach

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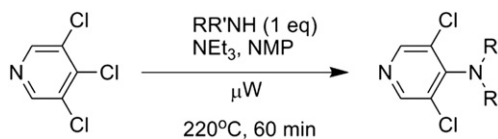
Andrea Basso*, Luca Banfi, Giuseppe Guanti, Renata Riva



Microwave-assisted synthesis of 4-amino-3,5-dihalopyridines

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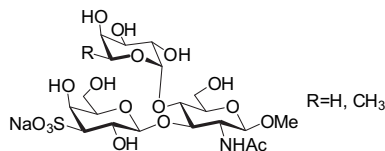
Mark Pichowicz, Simon Crumpler, Edward McDonald, Julian Blagg*



Synthesis of new sulfonic acid-containing oligosaccharide mimetics of sialyl Lewis A

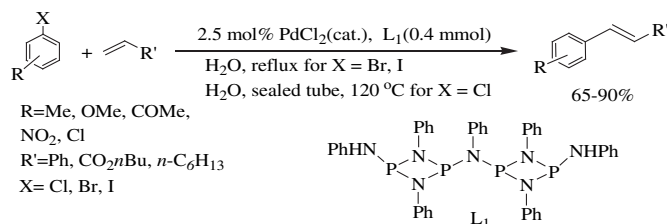
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Zsolt Jakab, Anikó Fekete, Anikó Borbás*, András Lipták, Sándor Antus

**1,3,2,4-Diazadiphosphetidines as new P–N ligands for palladium-catalyzed Heck reaction in water**

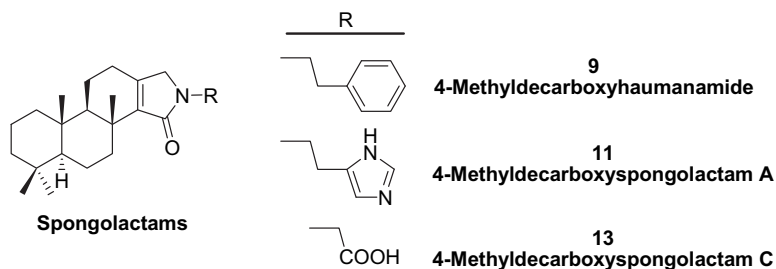
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Nasser Iranpoor*, Habib Firouzabadi*, Abbas Tarassoli, Masood Fereidoonhezad

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P. Basabe*, A. Blanco, O. Boderó, M. Martín, I.S. Marcos, D. Díez, F. Mollinedo, J.G. Urones

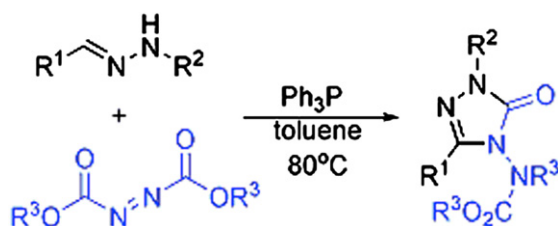


4-Methyldecaroxyhaumanamide and 4-Methyldecaroxyspongolactams A and C have been synthesized from (–)-sclareol.

Cascade synthesis of substituted 4-amino-1,2,4-triazol-3-ones from aldehyde hydrazones and azodicarboxylates

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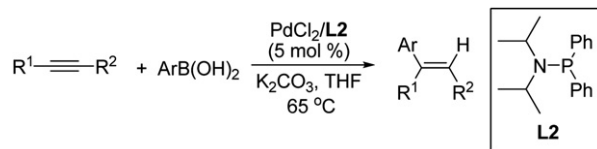
Yehua Su, Zhen Jiang, Deng Hong, Ping Lu*, Yanguang Wang*, Xianfu Lin



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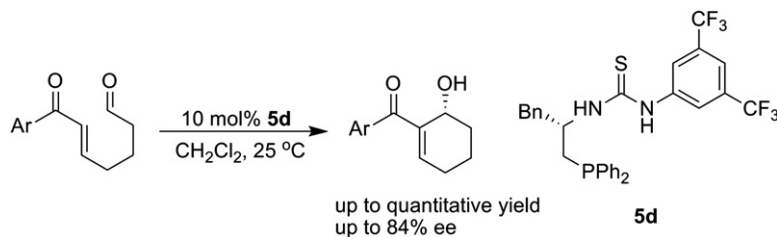
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Xiaoling Xu, Jiuxi Chen*, Wenxia Gao, Huayue Wu*, Jinchang Ding, Weike Su

**The enantioselective intramolecular Morita–Baylis–Hillman reaction catalyzed by amino acid-derived phosphinothiourea**

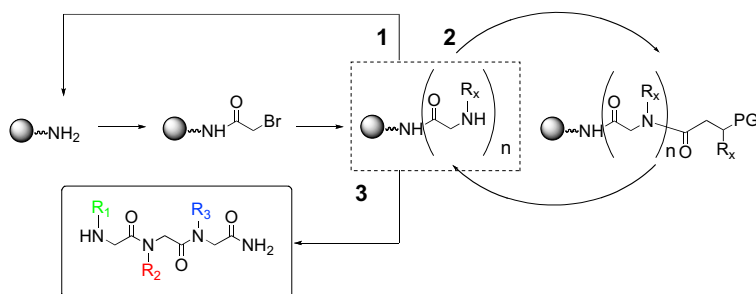
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Jing-Jing Gong, Kui Yuan, Hong-Liang Song, Xin-Yan Wu*

**Peptoids bearing tertiary amino residues in the *n*-alkyl side chains: synthesis of a potent inhibitor of Semaphorin 3A**

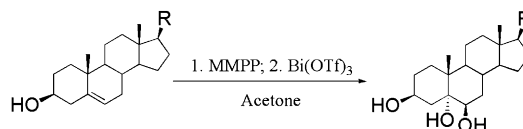
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Joaquim Messeguer, Isabel Masip, Marisol Montolio, Jose Antonio del Rio, Eduardo Soriano, Angel Messeguer*

**Efficient trans-diaxial hydroxylation of Δ^5 -steroids**

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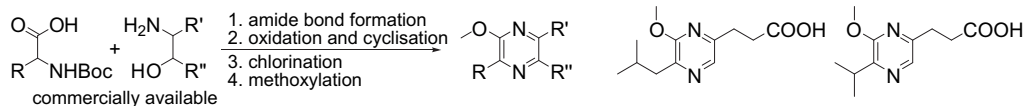
João F.S. Carvalho, M. Manuel Cruz Silva, M. Luisa Sá e Melo*



New approach to asymmetrically substituted methoxypyrazines, derivatives of wine flavors

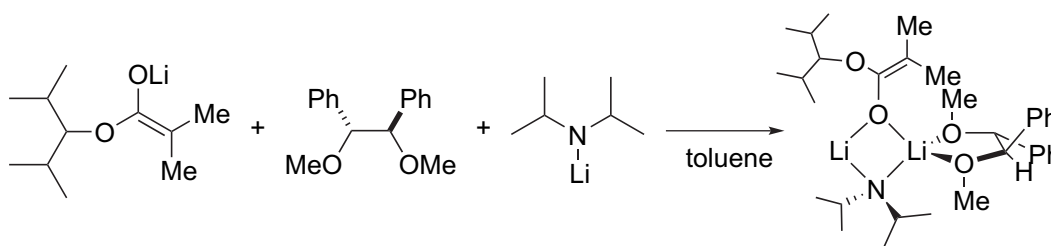
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Nicolas Cadelon, Svitlana Shinkaruk, Bernard Bennetau*, Catherine Bennetau-Pelissero, Marie-Laurence Dumartin, Marie Degueil, Pierre Babin

**NMR studies of a ternary complex reagent of lithium ester enolate, chiral diether, and lithium diisopropylamide in an asymmetric Michael reaction**

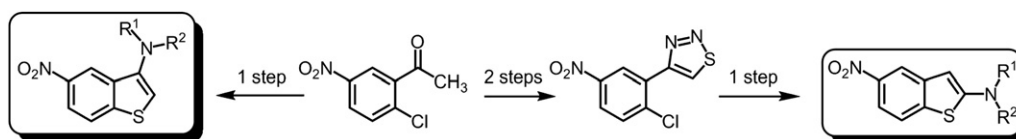
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Yasutomo Yamamoto, Yoronobu Yasuda, Hassan Oulyadi, Jacques Maddaluno, Kiyoshi Tomioka*

**A convenient approach towards 2- and 3-aminobenzo[b]thiophenes**

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Dmitry A. Androsov*, Andrey Y. Solovyev, Mikhail L. Petrov, Ray J. Butcher, Jerry P. Jasinski

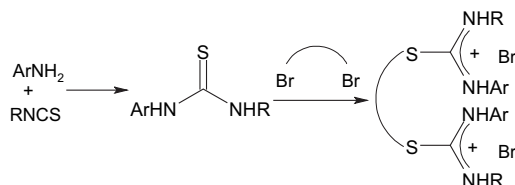


Reaction of 1-(2-chloro-5-nitrophenyl)ethanone via Willgerodt–Kindler route with primary or secondary amines and sulfur allows a simple, efficient one-pot synthesis of 3-aminobenzo[b]thiophenes. Base-catalyzed transformation of 4-(2-chloro-5-nitrophenyl)-1,2,3-thiadiazole in the presence of primary and secondary amines offers a convenient approach towards 2-aminobenzo[b]thiophenes.

**Study on the synthesis and molecular recognition of new receptors for selective complexation of carboxylic acids**

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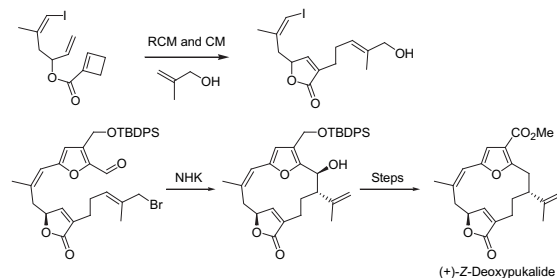
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Total synthesis of (+)-Z-deoxypukalide, a furanobutenolide-based cembranoid isolated from the pacific octocoral *Leptogorgia* spp.

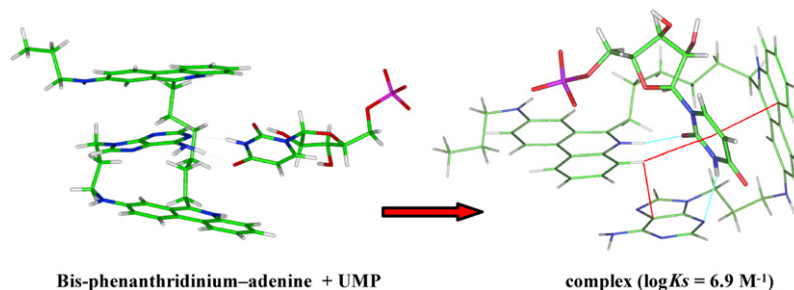
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Bencan Tang, Christopher D. Bray, Gerald Pattenden*, Joseph Rogers


The interactions of bis-phenanthridinium–nucleobase conjugates with nucleotides: adenine-conjugate recognizes UMP in aqueous medium

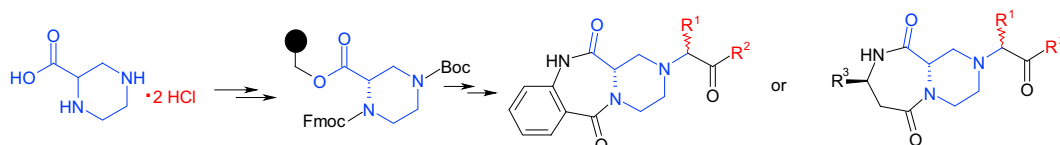
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Adam Mieczkowski, Janusz Jurczak*


Synthesis of new mono and bis amides projected as potential histone deacetylase (HDAC) inhibitors

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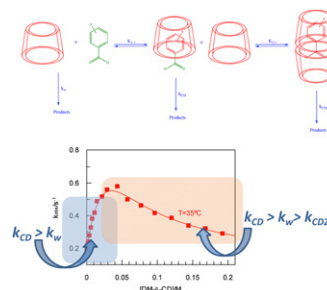
Stefania Terracciano, Maria Giovanna Chini, Giuseppe Bifulco, Elisabetta D'Amico, Stefania Marzocco, Raffaele Riccio, Ines Bruno*



The role of water release from the cyclodextrin cavity in the complexation of benzoyl chlorides by dimethyl- β -cyclodextrin

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Luis García-Río*, Juan Carlos Mejuto, Pedro Rodríguez-Dafonte, Russell W. Hall



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*Corresponding author

Supplementary data available via ScienceDirect

COVER

A method by which to accomplish formal threonine ligation has been developed. The thiol function in γ -thiol threonine reacts with a thioester acyl donor generated by rearrangement of an ortho-thiyl phenyl ester at the C-terminus. S-acylation is followed overall by S $\rightarrow$ N acyl migration to produce an N-terminal γ -thiylated threonine residue. De-thiylation of the mercapto group under free radical conditions affords a threonine ligation product.

Details can be found in Tetrahedron, **2010**, 66, 2277–2283.

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