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# Bioorganic & Medicinal Chemistry Letters

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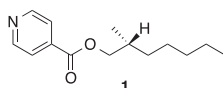
## Bioorganic & Medicinal Chemistry Letters Volume 25, Issue 22, 2015

### Contents

#### Regular Articles

**Synthesis and evaluation of antibacterial activity of (*R*)-2-methylheptyl isonicotinate, a putative naturally occurring bioactive agent** pp 5025–5027

Jia Cao, Ben Adler, Patrick Perlmutter\*

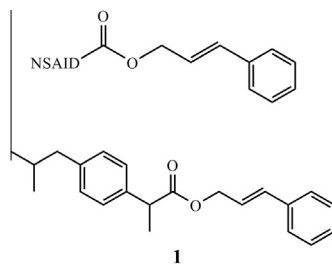


A putative antibacterial and antifungal compound, (*R*)-2-methylheptyl isonicotinate, was synthesized via reductive alkylation of (*R*)-4-methyltetrahydrofuran-2(3*H*)-one. Conclusions drawn from structural characterisation data as well as bioassay results (with *Bacillus subtilis* or *Escherichia coli*) contradict those previously reported.



**Esters of some non-steroidal anti-inflammatory drugs with cinnamyl alcohol are potent lipoxygenase inhibitors with enhanced anti-inflammatory activity** pp 5028–5031

Panagiotis Theodosis-Nobelos, Malamati Kourti, Paraskevi Tziona, Panos N. Kourounakis, Eleni A. Rekka\*



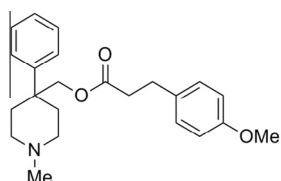
**Compound 1:**

Paw oedema reduction: 46%  
 LOX inhibition: IC<sub>50</sub> 6.7 μM  
 Reduction of lipidemic indices:  
 Plasma total cholesterol 53%  
 Plasma triglycerides 77.5%



**Muscarinic acetylcholine receptor binding affinities of pethidine analogs** pp 5032–5035

Na-Ra Lee, Xuan Zhang, Mahesh Darna, Linda P. Dwoskin, Guangrong Zheng\*



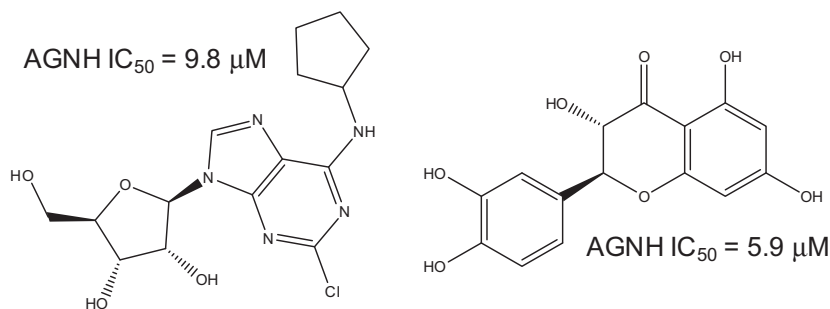
K<sub>i</sub> (μM)

hM<sub>1</sub> 0.67  
 hM<sub>3</sub> 0.37  
 hM<sub>5</sub> 0.38

**Adenosine/guanosine preferring nucleoside ribohydrolase is a distinct, druggable antitrichomonal target**

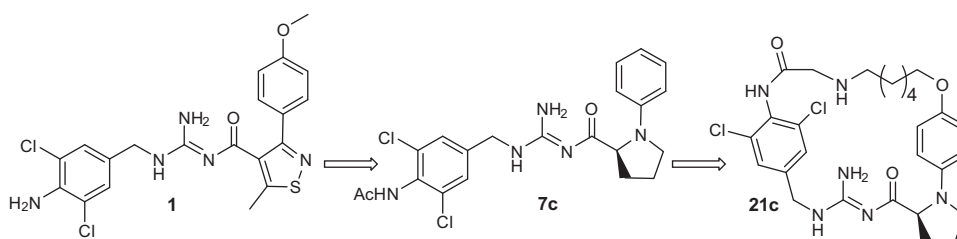
pp 5036–5039

Sierra Beck, Samantha N. Muellers, Annie Laurie Benzie, David W. Parkin, Brian J. Stockman\*

**Macrocyclic prolinyl acyl guanidines as inhibitors of  $\beta$ -secretase (BACE)**

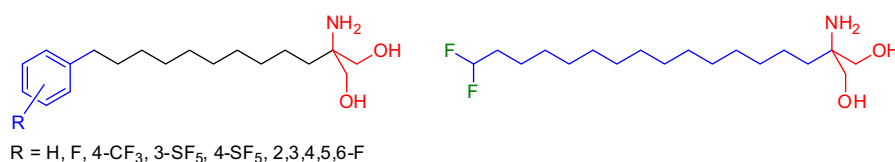
pp 5040–5047

Kenneth M. Boy\*, Jason M. Guernon, Yong-Jin Wu, Yunhui Zhang, Joe Shi, Weixu Zhai, Shirong Zhu, Samuel W. Gerritz, Jeremy H. Toyn, Jere E. Meredith, Donna M. Barten, Catherine R. Burton, Charles F. Albright, Andrew C. Good, James E. Grace, Kimberley A. Lentz, Richard E. Olson, John E. Macor, Lorin A. Thompson III

**New fluorinated agonists for targeting the sphingosin-1-phosphate receptor 1 (S1P<sub>1</sub>)**

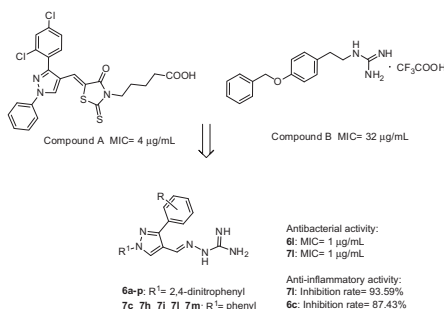
pp 5048–5051

Rizwan S. Shaikh, Petra Keul, Michael Schäfers, Bodo Levkau, Günter Haufe\*

**Synthesis and biological evaluation of 1,3-diaryl pyrazole derivatives as potential antibacterial and anti-inflammatory agents**

pp 5052–5057

Ya-Ru Li, Chao Li, Jia-Chun Liu, Meng Guo, Tian-Yi Zhang, Liang-Peng Sun, Chang-Ji Zheng\*, Hu-Ri Piao\*



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