Bioorganic & Medicinal Chemistry 17 (2009) 7405–7411

Contents lists available at ScienceDirect

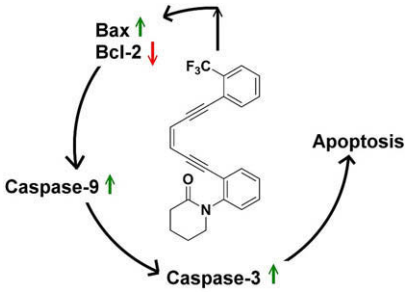
Bioorganic & Medicinal Chemistry

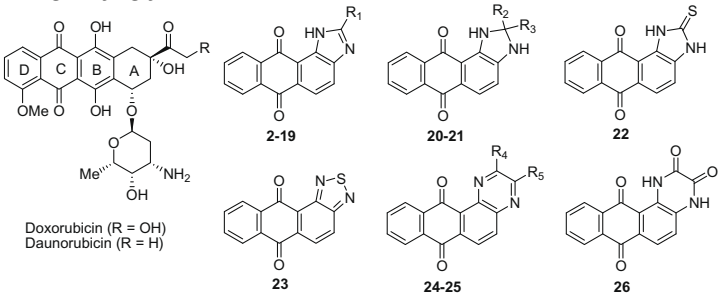
journal homepage: www.elsevier.com/locate/bmc

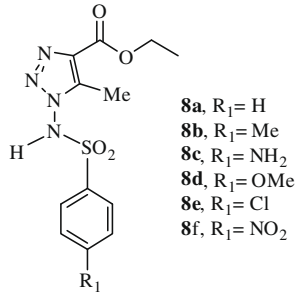
Bioorganic & Medicinal Chemistry Volume 17, Issue 21, 2009

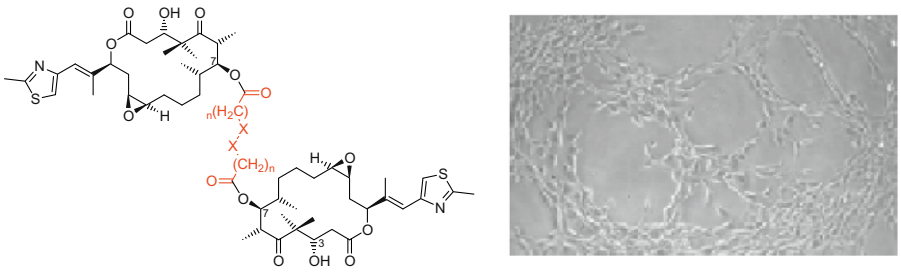
Contents

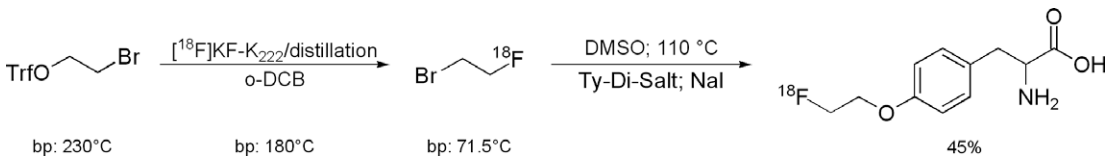
ARTICLES

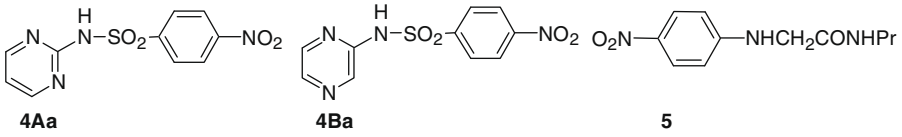




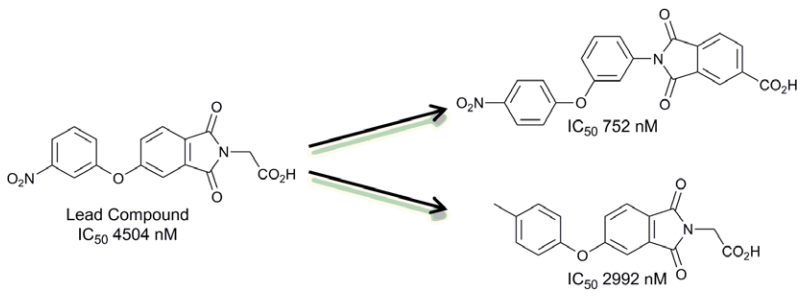


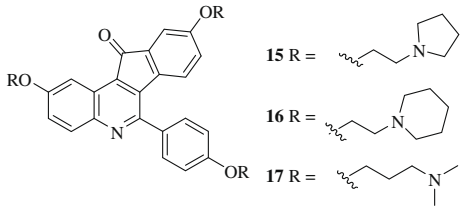


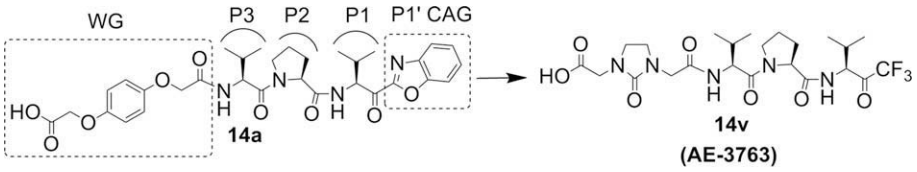




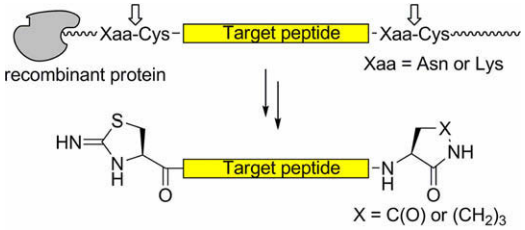
4-Nitrobenzene derivatives **4Aa**, **4Ba** and **5** represent possible candidates for leishmanicidal drugs as they exhibit good in vivo and in vitro activities against *Leishmania infantum* without toxicity to J774 macrophages.



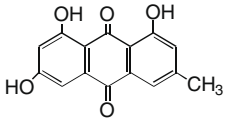




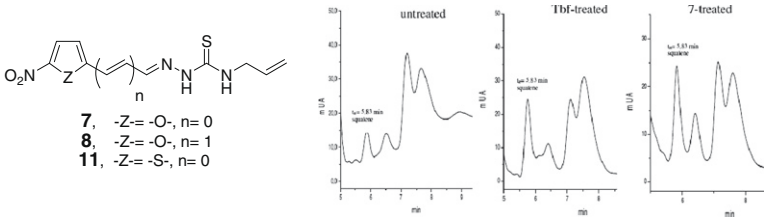
We present the SAR results of a series of peptide-based transition-state HNE inhibitors and the development of a highly water-soluble candidate **14v** (**AE-3763**) for treatment of acute organ injury, from the lead compound **14a**.



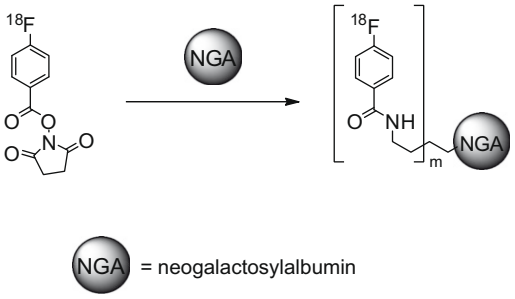
Anti-HIV fusion inhibitory peptides with N- and C-terminal end-capping groups was synthesized by two simultaneous *S*-cyanocysteine-mediated cleavages of recombinant proteins.



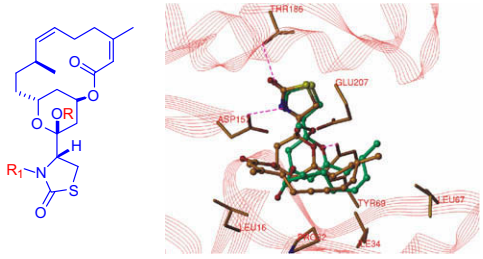
In addition to the major metabolite 8-*O*-methyl emodin, ω-hydroxyemodin, 3-*O*-methyl-ω-hydroxyemodin, 3-*O*-methylemodin, and chrysophanol were detected as emodin metabolites by LC–APCI-MS/MS method in Raji cells.



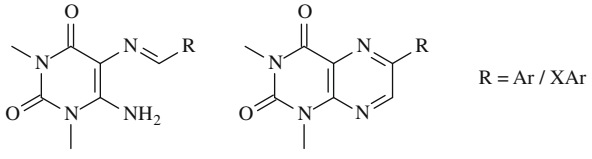
New 5-nitrofuran and 5-nitrothiophene derivatives have been synthesized and evaluated for their in vitro anti-*Trypanosoma cruzi* activities and squalene-accumulation capabilities.



NGA was labeled with ^{18}F through active ester intermediate [^{18}F]SFB to coupling the ε-amide of lysine residue.



Synthesis and in vitro evaluation of pteridine analogues as monoamine oxidase B and nitric oxide synthase inhibitors **pp 7523–7530**
Louis H. A. Prins, Jacobus P. Petzer, Sarel F. Malan *



A series of pteridine-2,4-dione analogues were synthesised and evaluated as inhibitors of monoamine oxidase B (MAO-B) and nitric oxide synthase (NOS).

*Corresponding author
ⓘ+ Supplementary data available via ScienceDirect

COVER

An insight into biologically relevant chemical space showing the scaffolds of potential natural-product based inhibitors orbiting their target, the protein structure of protein 11-beta steroid dehydrogenase (PDB code 1xu7). Graphic produced using Pymol (http://www.pymol.org). [M. A. Koch, A. Schuffenhauer, M. Scheck, S. Wetzel, M. Casaulta, A. Odermatt, P. Ertl, H. Waldmann, Charting biologically relevant chemical space: A structural classification of natural products (SCONP), *PNAS* **2005**, *102*, 17272–17277 and S. Wetzel, H. Waldmann, Cheminformatic analysis of natural products and their chemical space, *Chimia* **2007**, *61*(6), 355–360].

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ISSN 0968-0896