Bioorganic & Medicinal Chemistry 20 (2012) 3369–3377

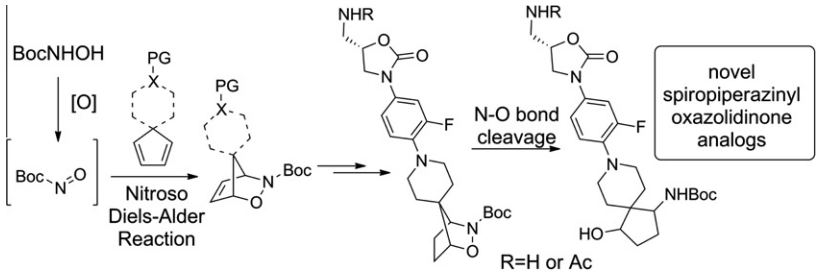
Contents lists available at SciVerse ScienceDirect

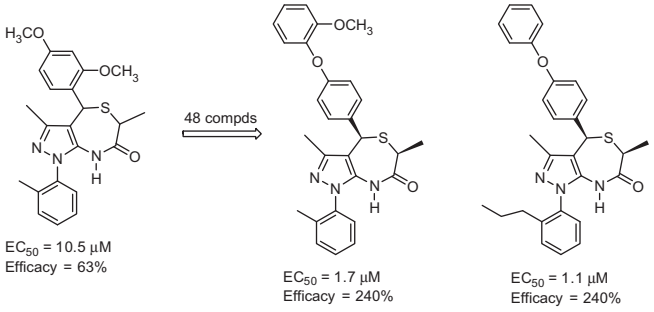
Bioorganic & Medicinal Chemistry

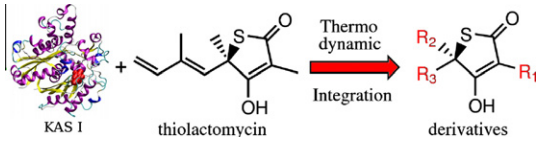
journal homepage: www.elsevier.com/locate/bmc

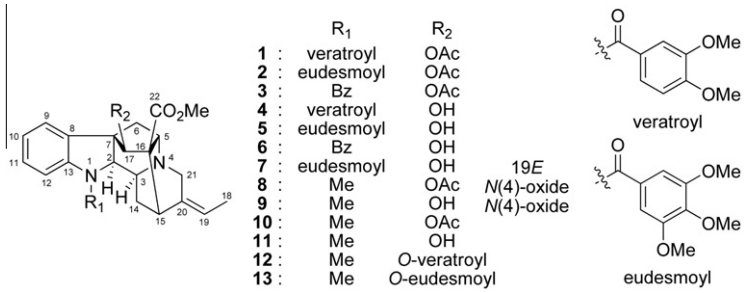
Bioorganic & Medicinal Chemistry Volume 20, Issue 11, 2012

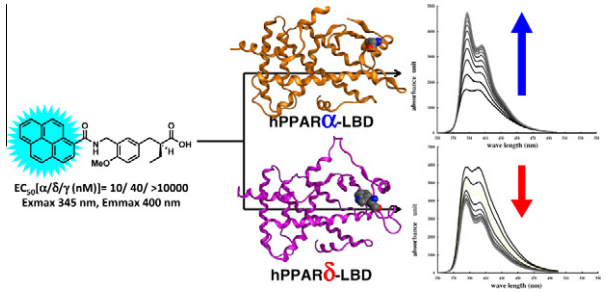
Contents

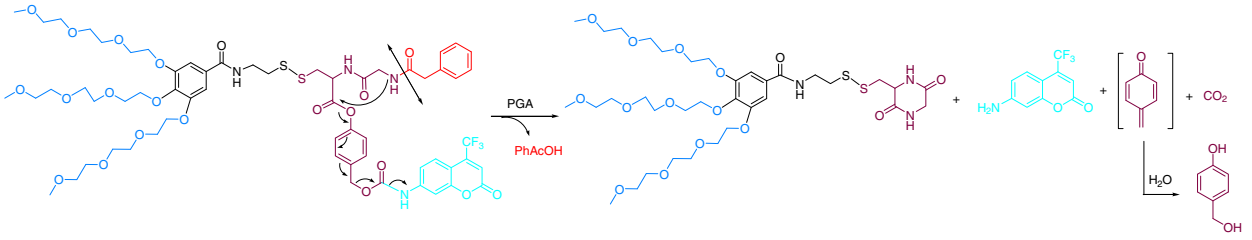


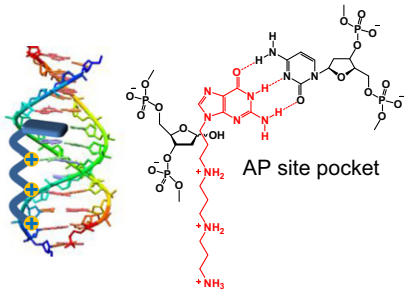


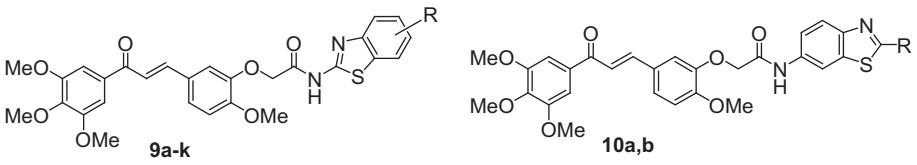


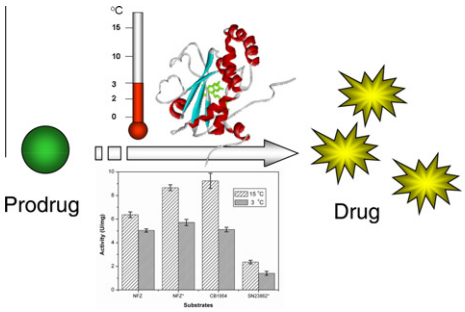


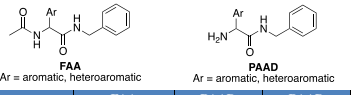






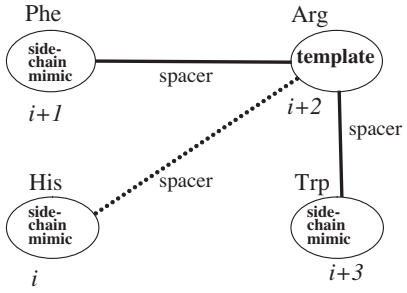




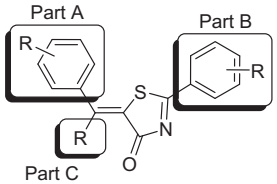


Ar	FAA MES ED_{50} (mg/kg)	PAAD MES ED_{50} (mg/kg)	PAAD Formalin ED_{50} (mg/kg)
	11	100 (MAD)[a]	33
	15	85	>160
	10	85	29
	12	67	45

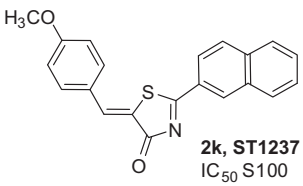
[a] MAD = minimal active dose



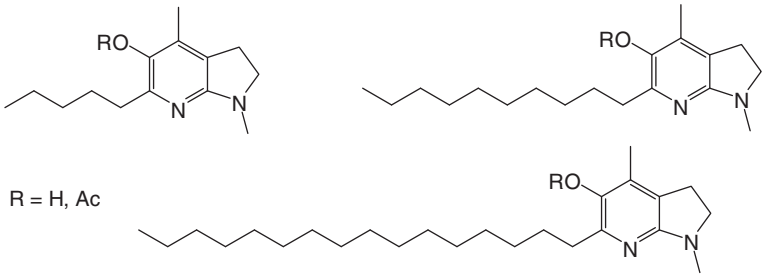
General structure:

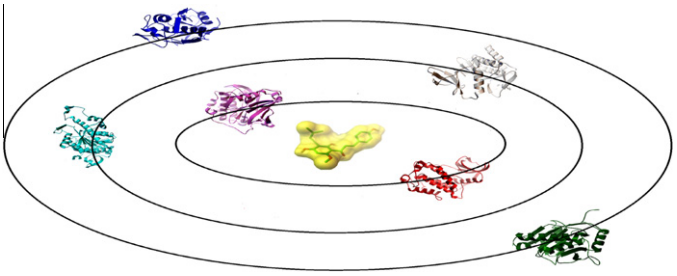


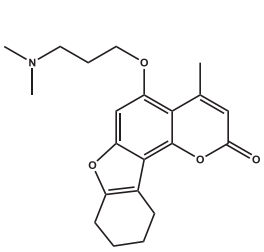
Most active compound:

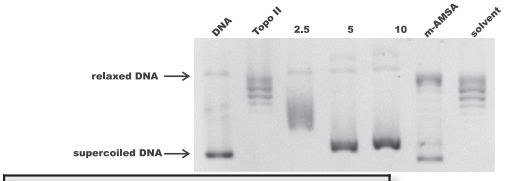


2k, ST1237
IC_{50} S100 = 0.08 μM
IC_{50} PMNL = 0.12 μM

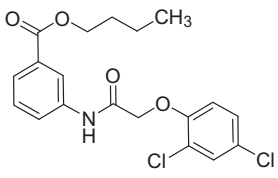




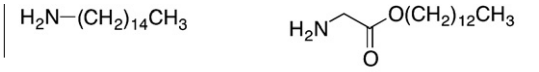




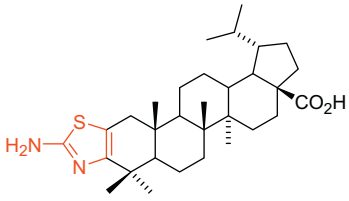
IC_{50} (μM)			
HeLa		A-431	
UVA	dark	UVA	dark
0.4±0.1	7.2±0.3	2.0±0.5	6.7±1.1

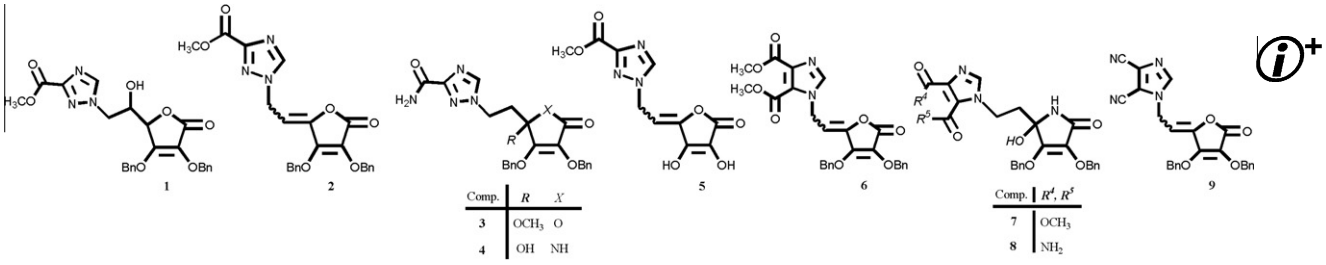


Compound **6**, butyl 3-[2-(2,4-dichlorophenoxy)acetamido]benzoate, binds to DnaJ and inhibits Hsp70/DnaJ protein refolding with an IC_{50} value of 0.13 μM.



pentadecylamine (**2c**) tridecyl 2-aminoacetate (**11b**)





*Corresponding author
Supplementary data available via SciVerse ScienceDirect

COVER

Dipyrone (metamizol) is a common antipyretic drug and the most popular non-opioid analgesic in many countries. In spite of its long and widespread use, molecular details of its fate in the body are not fully known. Two unknown metabolites were now found, viz. arachidonoyl amides, and positively tested for cannabis receptor binding (CB1 and CB2) and cyclooxygenase inhibition. Two more puzzle pieces of the dipyrone story found! (Rogosch, T.; Sinning, C.; Podlewski, A.; Watzer, B.; Schlosburg, J.; Lichtman, A.H.; Cascio, M.G.; Bisogno, T.; Di Marzo, V.; Nüsing, R.; Imming, P. *Bioorg. Med. Chem.* **2012,** *20,* 103–109.]

Available online at www.sciencedirect.com

SciVerse ScienceDirect

Indexed/Abstracted in: Beilstein, Biochemistry & Biophysics Citation Index, CANCERLIT, Chemical Abstracts, Chemistry Citation Index, Current Awareness in Biological Sciences/BIOBASE, Current Contents: Life Sciences, EMBASE/Excerpta Medica, MEDLINE, PASCAL, Research Alert, Science Citation Index, SciSearch, TOXFILE. Also covered in the abstract and citation database SciVerse Scopus®. Full text available on SciVerse ScienceDirect®

ELSEVIER

ISSN 0968-0896