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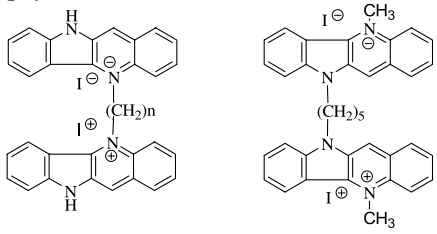
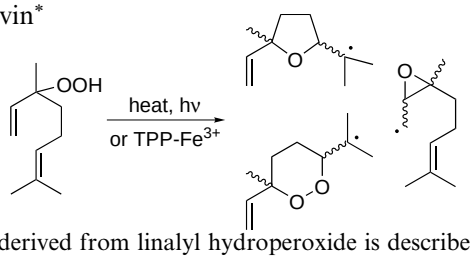
Contents

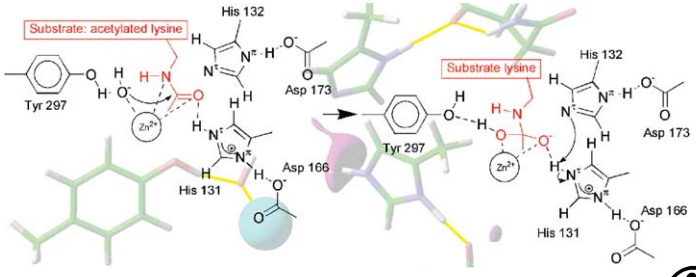
ARTICLES

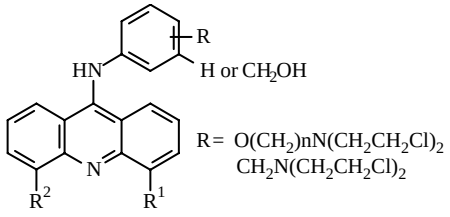


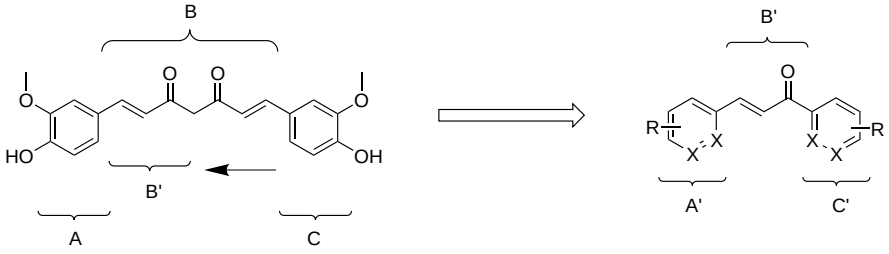
Compound	R	R^1
5a	1α-CH_2OH	3β-OH
5b	1β-CH_2OH	3α-OH
6a	1α-OH	3β-CH_2OH
6b	1β-OH	3α-CH_2OH

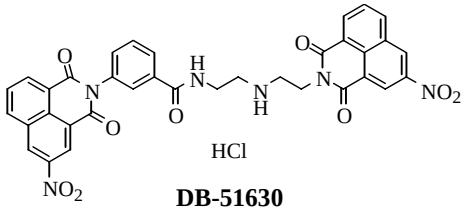
Compound	R	R^1
7a	1α-CH_2OH	3β-OH
7b	1β-CH_2OH	3α-OH
8	1α-OH	3β-CH_2OH





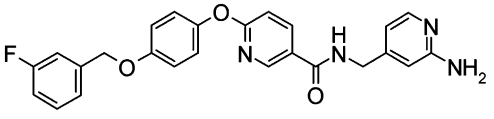




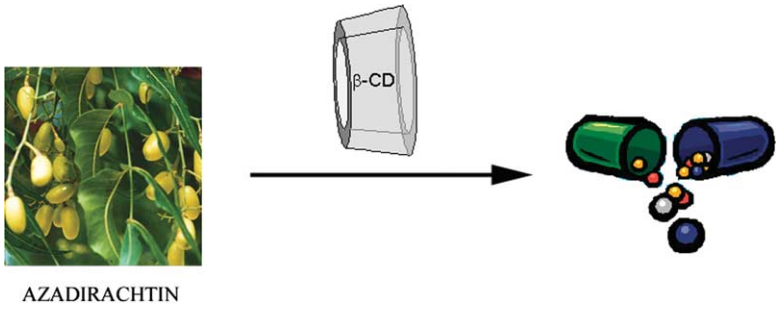


DB-51630

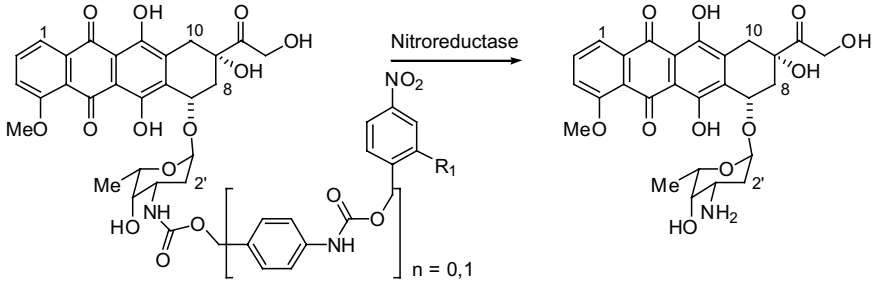
DB-51630 specifically induced p300 gene expression in cancer cells and showed a potent anti-cancer activity both in vitro and in vivo.

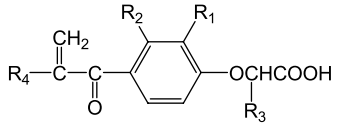


A series of 2-aminopyridine derivatives were prepared and evaluated for their inhibitory activities against the reverse and forward modes of the sodium–calcium exchanger (NCX). The structure–activity relationships of these compounds and their inhibitory activities against NCX are discussed. *N*-[(2-Aminopyridin-4-yl)methyl]-6-{4-[(3-fluorobenzyl)oxy]phenoxy}nicotinamide was evaluated for its effect in a heart failure model.

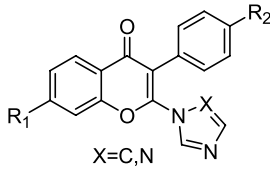


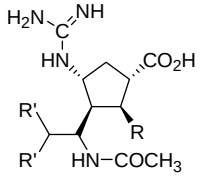
A series of nitrobenzyl and nitroimidazolylmethyl carbamate prodrugs of doxorubicin were synthesized and evaluated as substrates for nitroreductase-mediated gene-directed enzyme prodrug therapy.



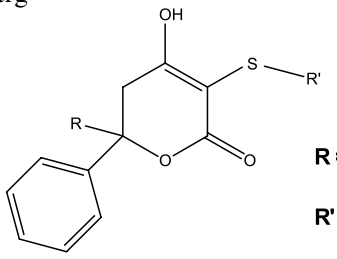


R_1, R_2, R_3, R_4 = CH_3, CH_2CH_3, F, Cl or Br





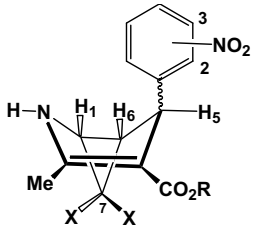
R = H or OH
R' = C_2H_5 or n-C_3H_7



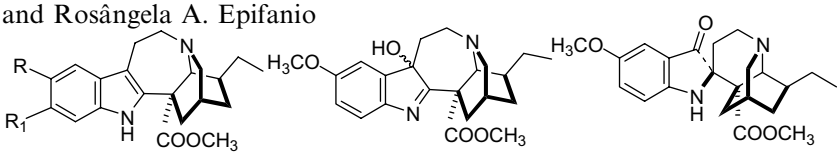
R = X-phenyl / $(CH_2)_n$-phenyl

R' = Alkyl/Phenyl/Phenethyl

In the present study, the role of hydrophobicity in the design of 4-hydroxy-5,6-dihydropyran-2-ones HIV-1 protease inhibitors is discussed. It has been found that a sufficient spread in the data is required to observe the optimum value of Clog *P* for these inhibitors.

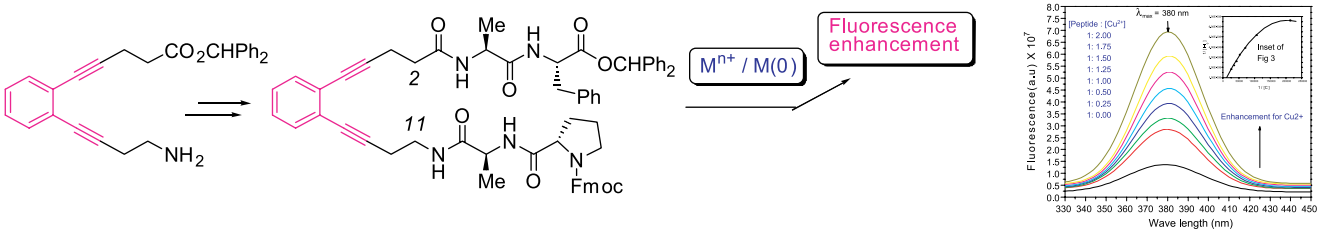


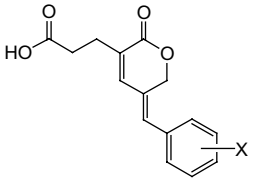
R = Me, Et, *i*-Pr, *i*-Bu, *t*-Bu
X = Br,Cl

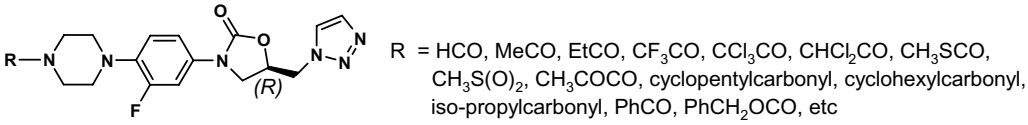


Coronaridine (**1**): R=R_1=H
Voacangine (**2**): R=H; R_1=OCH_3
Voacangine hydroxyindolenine (**3**)
Rupicoline (**4**)

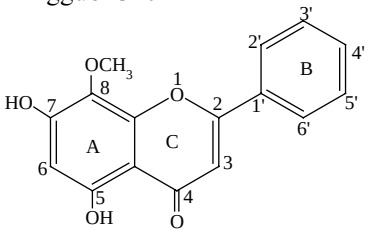
In an enzymatic TLC survey, among the 10 alkaloids identified in *Tabernaemontana australis*, **1**–**4** inhibited the acetylcholinesterase enzyme at the same detection limit concentration of the reference compounds physostigmine and galanthamine, showing that iboga alkaloids are promising anti-Alzheimer agents.







Synthesis and structure–antibacterial activity of new N-linked-5-triazolylmethyl oxazolidinones are presented.



Scheme of Wogonin

The binding of wogonin with bovine serum albumin (BSA) was investigated at different temperatures by fluorescence, circular dichroism (CD) and Fourier transform infrared spectroscopy (FT-IR) at pH7.40.

CORRIGENDUM

OTHER CONTENTS

*Corresponding author
ⓘ+ Supplementary data available via ScienceDirect

COVER

2005: Human liver glycogen phosphorylase A (HLGPa) is an attractive target enzyme for discovering anti-type 2 diabetes drugs. This picture shows the interaction model for a series of indole-2-carboxamides to HLGPa derived from molecular docking simulations [Liu, G.; Zhang, Z.; Luo, X.; Shen, J.; Liu, H.; Shen, X.; Chen, K.; Jiang, H. *Bioorg. Med. Chem.* **2004**, *12*, 4147–4157].

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