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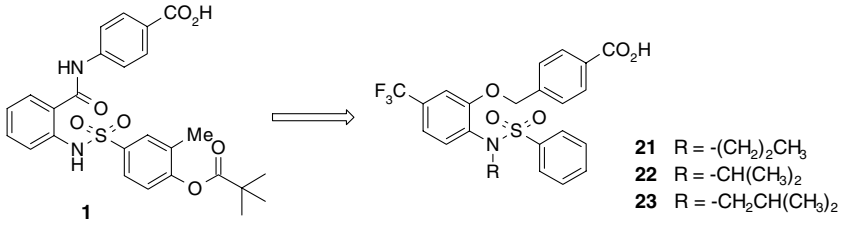
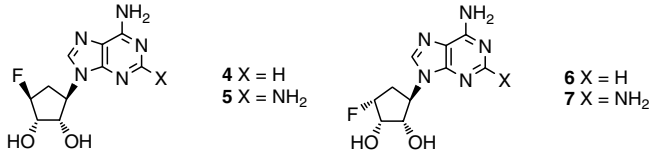
Contents

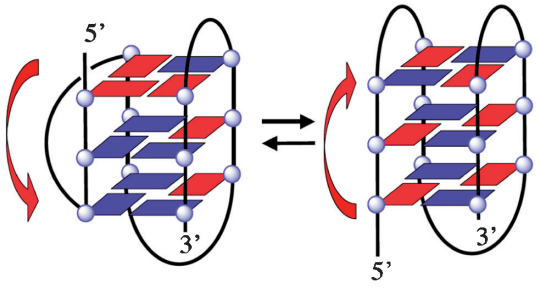
ARTICLES

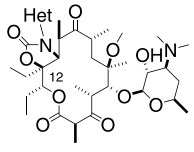


Discovery process of new selective EP1 receptor antagonists **21**–**23** starting from **1**.

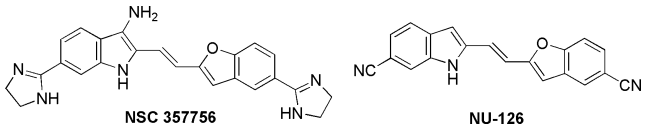


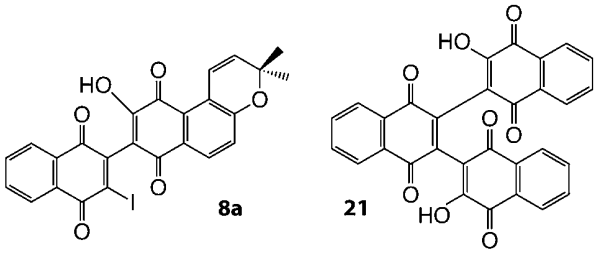
We substituted the Gs in the sequence with 8-bromoguanine and examined the resultant structures and thermal stabilities by circular dichroism (CD) spectroscopy. The results suggest that the 22 nt in K^+ solution exists as a mixture of mixed-parallel/antiparallel and chair-type G-quadruplex.

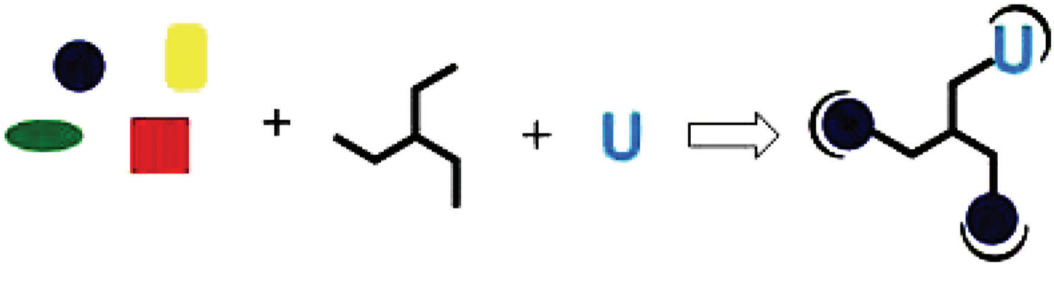


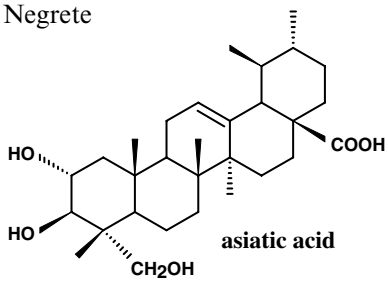


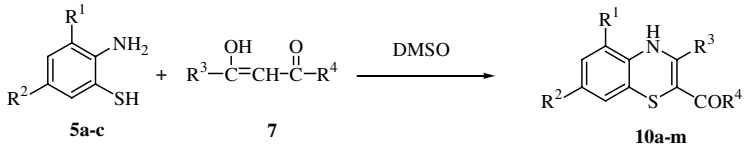
A novel series of C_{12} ethyl erythromycin ketolide derivatives have been prepared which exhibit in vitro and in vivo potency against key respiratory pathogens, including those resistant to erythromycin.



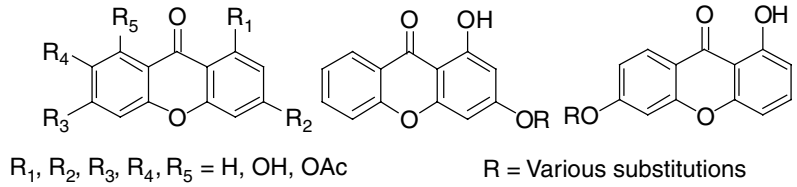




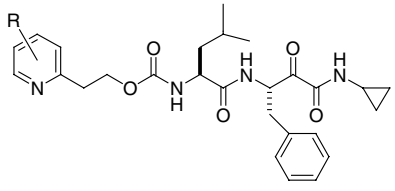


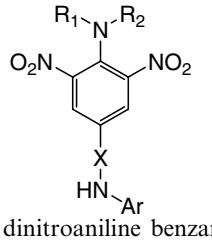


7-Chloro-5-trifluoromethyl/7-fluoro/7-trifluoromethyl-4*H*-1,4-benzothiazines have been synthesized by 2-amino-5-fluoro/5-trifluoromethyl/5-chloro-3-trifluoromethyl benzenethiols condensed with β-diketone/β-ketoesters in the presence of DMSO involving oxidative cyclization. Antimicrobial activities of synthesized compounds have also been included.

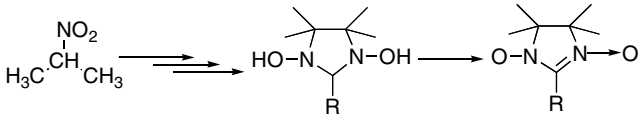


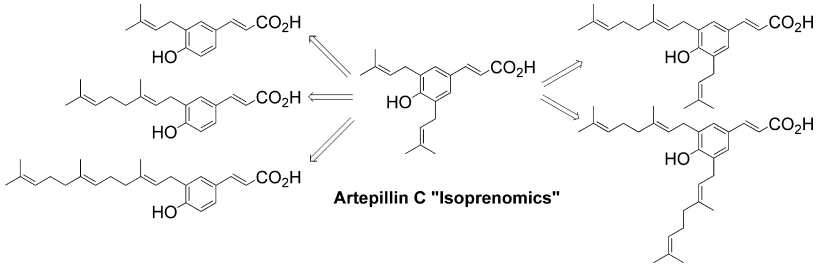
A series of hydroxyxanthones and their acetoxy and alkoxy derivatives were synthesized and evaluated as α-glucosidase inhibitors, aimed at clarifying the structure–activity correlation. The results indicated that these xanthone derivatives were capable of inhibiting in vitro α-glucosidase.

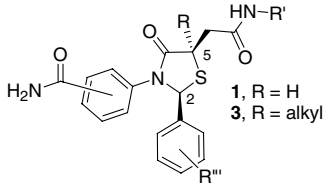




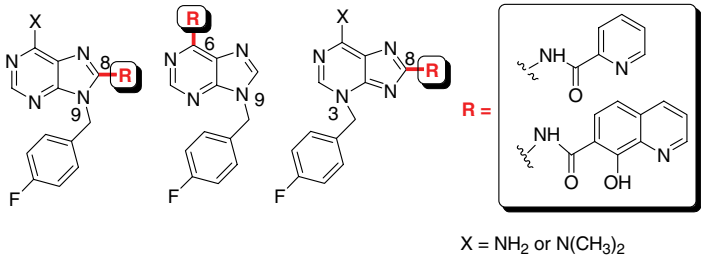
Seventeen new dinitroaniline sulfonamides and eleven dinitroaniline benzamides are reported. Nine of the sulfonamides display in vitro IC_{50} values under 500 nM against African trypanosomes.

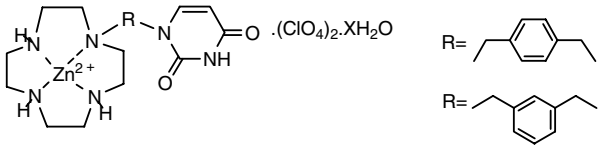


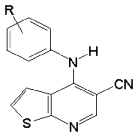




5-Alkylated thiazolidine analogs (**3**) potent FSH agonists **1** were prepared and evaluated for FSH activity.







R = H, *m*-CH_3, *p*-CH_3, *m*-OCH_3, *p*-OCH_3, *m*-NO_2, *p*-NO_2, *m*-F, *p*-F, *m*-Cl, *p*-Cl, *m*-Br, *p*-Br

We performed the design, synthesis, and the structure–activity relationship studies of 13 new derivatives of thieno[2,3-*b*]pyridine system pointing the *p*-methoxy derivative as a leading compound for antiparasite development.

OTHER CONTENTS

*Corresponding author

ⓘ+ Supplementary data available via ScienceDirect

COVER

2006: The cover figure shows a synthetic multifunctional pore that is composed of rigid-rod staves (para-octiphenyls, tan) and beta-sheet hoops (arrows) and can be activated with external ligands (fullerenes, golden spheres) and closed with internal blockers (alpha-helix, red ribbon) [Gorteau, V.; Bollot, G.; Mareda, J.; Pasini, D.; Tran, D.-H.; Lazar, A. N.; Coleman, A. W.; Sakai, N.; Matile, S. *Bioorg. Med. Chem.* **2005**, *13*, 5171–5180].

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