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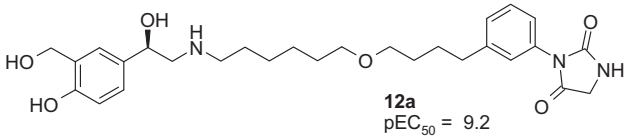
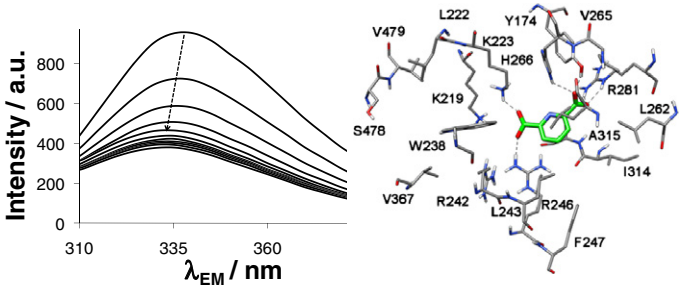
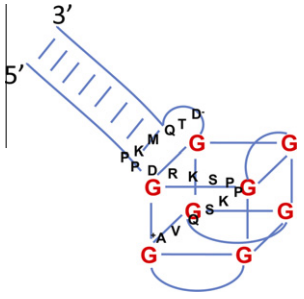
Contents

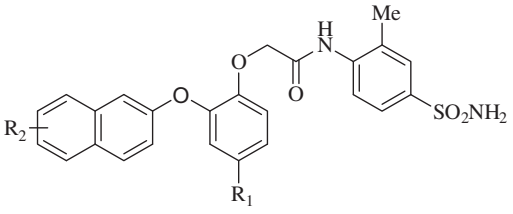
ARTICLES



12a
pEC_{50} = 9.2



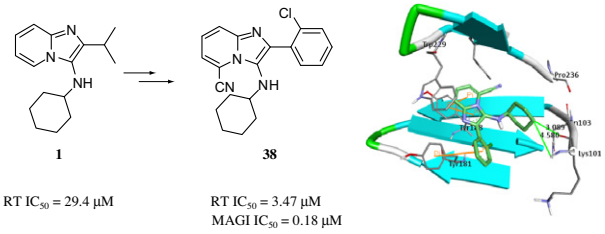




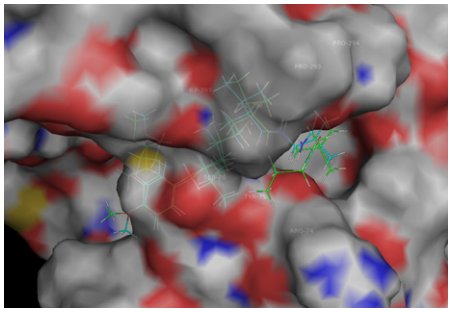
12, NPEs

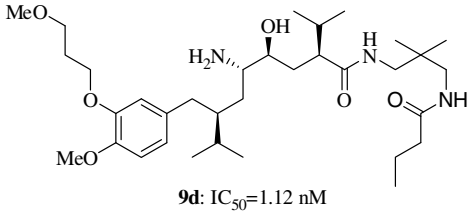
R_1=Cl or F;

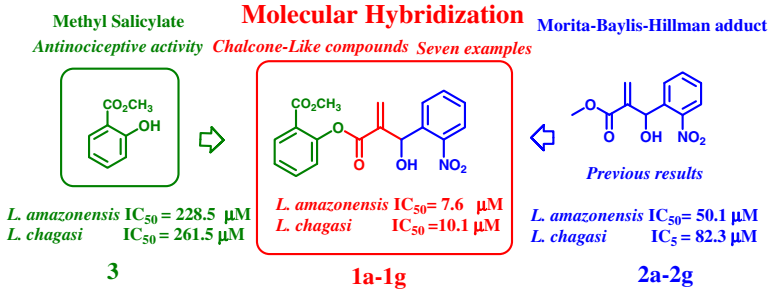
R_2= H, F, Cl, Br, Me or CN (mono- or di-substitued)

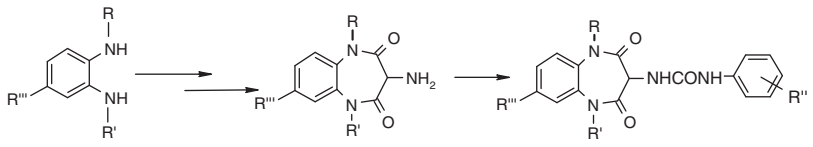


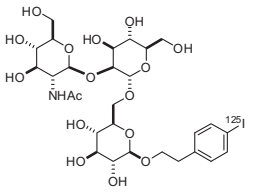
Imidazo[1,2-*a*]pyridine-3-amines were synthesised using the Groebke reaction and tested for anti-HIV activity. Compounds prepared from 2-chlorobenzaldehyde, and a combination of cyclohexyl isocyanide and a 6-substituted 2-aminopyridine showed good inhibitory activity in a reverse transcriptase assay and whole cell anti-HIV infectivity assays.



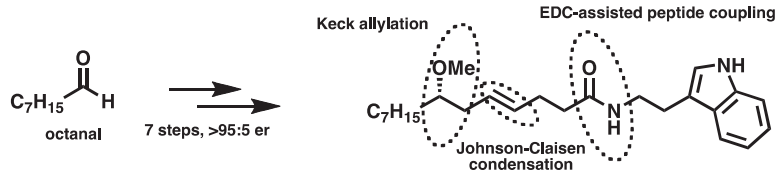




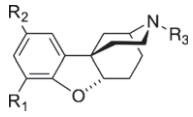




Km 23.7 μM, Vmax 159 pmol/h·g protein for GnT-V

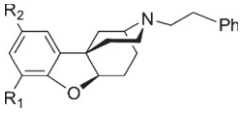


***S*-hermitamide B**
[^{3}H]-BTX displacement: 29% at 10 μM (phenytoin, 20% at 10 μM)
Current blockade at $Na_v1.2$: 80% at 1μM (phenytoin, 10% at 10μM)



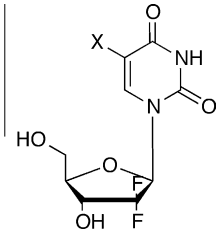
R_1	R_2	R_3
OH	H	Me
OH	H	PhEt
H	OH	Me
H	OH	PhEt

N-Methyl and *N*-phenethyl substituted *rac*-*ortho*-a and *para*-a oxide-bridged phenylmorphans



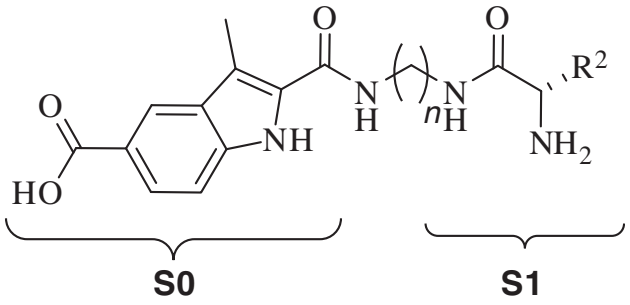
	R_1	R_2
(-)-	OH	H
(+)-	OH	H
(-)-	H	OH
(+)-	H	OH

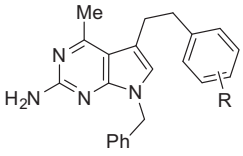
N-Phenethyl substituted (+)- and (-)-*ortho*-b and *para*-b oxide-bridged phenylmorphans



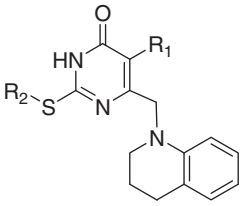
μM inhibitors of FHV

5-Halo-2′,2′-difluorodeoxyuridines and their ProTides are prepared: the iodo and bromo nucleosides are specific low μM inhibitors of feline herpes virus.



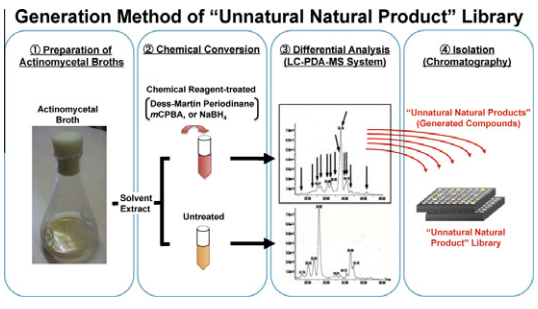


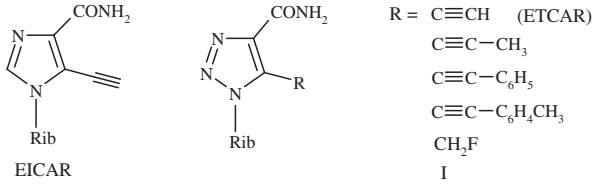
Optimization of antimitotic and resistance reversal properties



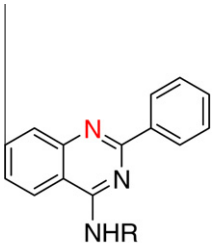
Newly designed S-DABOs

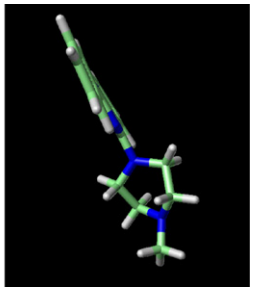
A series of novel *S*-DABO analogues of 5-alkyl-2-arylthio-6-((3,4-dihydroquinolin-1(2*H*)-yl)methyl)pyrimidin-4(3*H*)-ones were synthesized and evaluated as inhibitors of human immunodeficiency virus type-1 (HIV-1).





5-Substituted 1,2,3-triazole nucleosides, analogous to EICAR, were synthesized and evaluated for cytotoxic activity.





4-Amino-2-phenylquinazolines were designed as bioisosteres of 3-arylisoquinolinamines that were energy minimized to provide stable conformers. The 2-phenyl ring of 4-amino-2-phenylquinazolines was parallel to the quinazoline ring and improved their DNA intercalation ability in the DNA–topo I complex.

*Corresponding author
Supplementary data available via ScienceDirect

COVER

The known veterinary anthelmintic and proton ionophore, closantel, was recently discovered to also exhibit potent chitinase inhibition activity and inhibit molting in the parasitic nematode, *Onchocerca volvulus*, the causative agent of the neglected tropical disease onchocerciasis. [C. Gloeckner, A. L. Garner, F. Mersha, Y. Oksov, N. Tricoche, L. M. Eubanks, S. Lustigman, G. F. Kaufmann, K. D. Janda, Repositioning of an existing drug for the neglected tropical disease Onchocerciasis, *Proc. Natl. Acad. Sci., U.S.A.* **2010**, *107*, 3424.]

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