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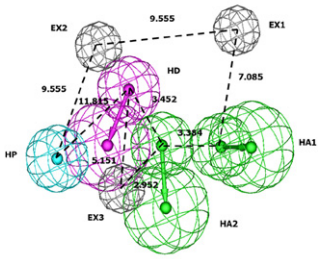
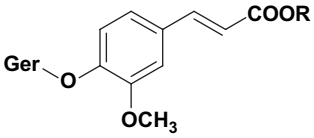
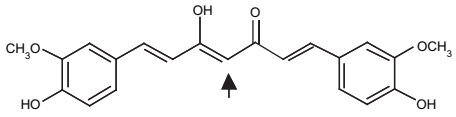
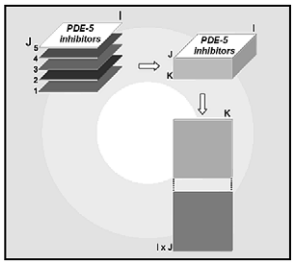
Contents

ORIGINAL ARTICLES

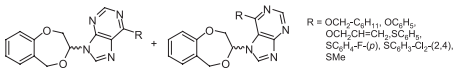




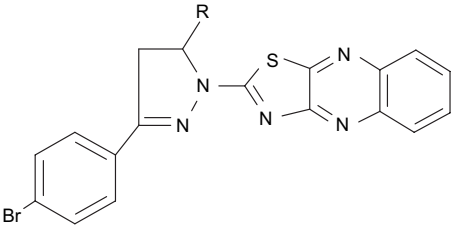




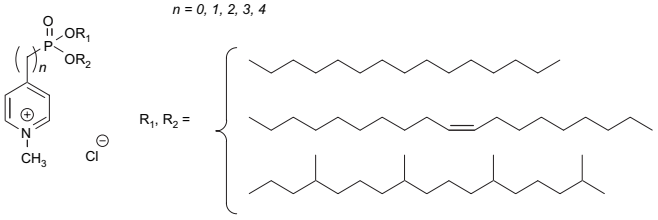
SHORT COMMUNICATIONS



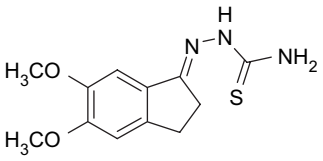
A variety of 3-(3-bromo phenyl)-5-phenyl-1-(thiazolo [4,5-*b*] quinoxaline-2-yl)-2-pyrazoline were obtained by the refluxing of 1-*N*-thiocarbamoyl 3,5-diphenyl-2-pyrazoline with 2,3-dichloroquinoxaline. The antiamoebic activity of these compounds was evaluated against *Entamoeba histolytica*. Some of the quinoxaline derivatives showed less IC_{50} values than metronidazole. To elucidate the toxic effect, MTT assay was performed using kidney epithelial cell line. The compound **18** has lowest toxicity and highest antiamoebic activity.

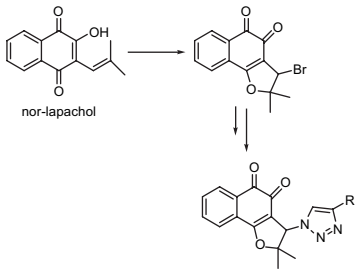


A series of cationic lipids containing phosphonate esters were prepared. Lipids were assessed as vectors for transfecting DNA to various cell lines, under different conditions, in a 96-well format.

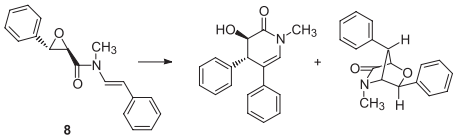


The synthesis of thiosemicarbazones derived from 1-indanones active against BVDV is reported.





LABORATORY NOTES



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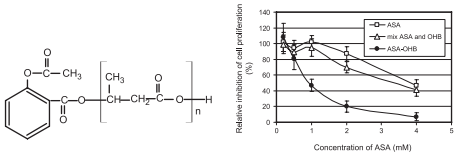

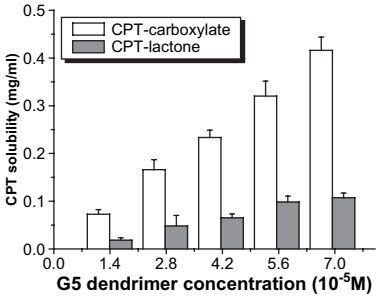

COVER

Overlay of the experimental and docked conformations of the ligand fluorescein in complex with an antifluorescein 4-4-20 Fab fragment (PDB code 1flr, 1.85 Å). The top-scoring conformation (purple) selected by the HINT force field, among the 255 poses generated by AutoDock, nearly overlays the crystallographic structure (yellow), while the conformation selected by the AutoDock scoring function (green) reverses the positions of the carbonyl and hydroxyl groups.
Image provided by Francesca Spyrakis, Alessio Amadasi, Micaela Fornabaio, Donald J. Abraham, Andrea Mozzarelli, Glen E. Kellogg, Pietro Cozzini.

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