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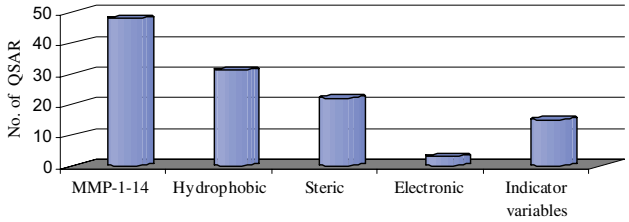
Contents

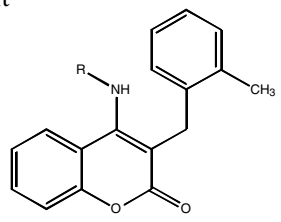
REVIEW

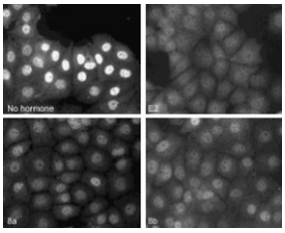


The review highlights from the classification of this enzyme to the clinical trials of their inhibitors. A total number of 92 QSAR models (44 published and 48 new QSAR models) have also been presented. Contributions of different descriptors in the derivation of 48 new QSAR models for MMP-1–14 are shown in the figure.

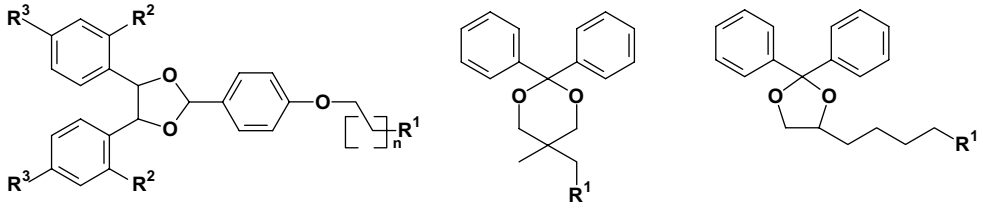
ARTICLES

We describe the synthesis of substituted 4-amino-3-(2-methylbenzyl)coumarins tested toward estrogenic pathways in breast cancer cells. The nature of the N-substituents allows one to distinguish subtly transcriptional activity from down-regulation and cell proliferation.





8a: R=C_5H_9; **8b**: R=C_6H_{11}



n = 1 - 3 **R^1 = Piperidine or piperazine-derivatives** **R^2 = Cl or H** **R^3 = F or H**

Novel 2,2-diphenyl-1,3-dioxolane, 2,2-diphenyl-1,3-dioxane, and 4,5-diphenyl-1,3-dioxolane derivatives with variable linker and basic moiety show a high activity to reverse MDR in human Caco-2 cells.

OTHER CONTENTS

*Corresponding author
ⓘ+ Supplementary data available via ScienceDirect

COVER

Blockage of fatty acid synthesis in *S. aureus* by N-thiolated β-lactam antibiotics [Revell, K. D.; Heldreth, B.; Long, T. E.; Jang, S.; Turos, E. *Bioorg. Med. Chem.* **2007**, *15*, 2453–2467].

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