

# Synthesis of some glycosteroidal bolaphiles

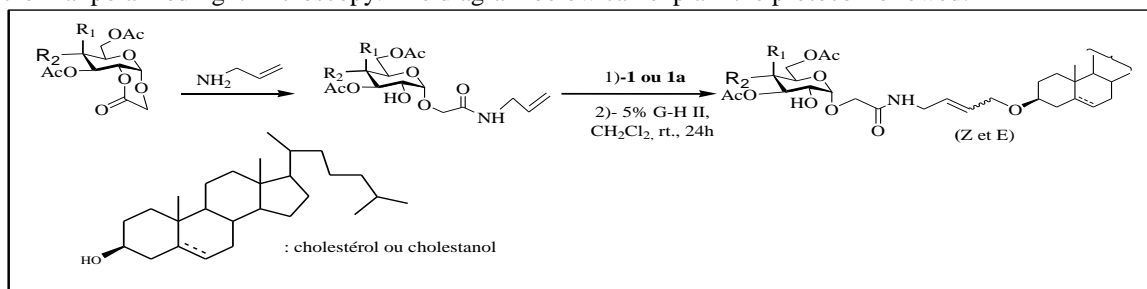
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## Abstract

this work describe the synthesis of bolaphile biomimics composed based on saccharids head groups and steroidal units, the two entities are linked together by a methylene chain of varying length. Many compounds in this family are natural products, which possess important biological properties[1] This family of compounds has been prepared by the CMGL-synthon strategy[2] and reporting our preliminary results on the thermotropic behaviour of acyl steroid glycosides (ASG), namely cholesteryl 6-O-acyl- $\beta$ -gluco- and -galacto-pyranosides. These systems can exhibit several types of structures depending on their polarity pattern based on the number of polar and non-polar moieties and their resulting formed by self-organization of the products as a function of temperature were characterized by differential scanning calorimetry and thermal polarized light microscopy. The diagram below can explain the protocol followed:



Scheme 1: Diagram explained the protocol followed for the synthesis of bolaphils compounds

[1] Goodby, J. W.; Görtz, V.; Cowling, S. J.; MacKenzie, G.; Martin, P.; Plusquellec, D.; Benvegna, T.; Boullanger, P.; Lafont, D.; Queneau, Y.; Chambert, S.; Fitremann, J. *Chem.Soc. Rev.* **2007**, 36, 1971-2032

[2] S. Trombotto, M. Danel, J. Fitremann, A. Bouchu, Y. Queneau, *J. Org. Chem.*; **2003**; 68; 6672-6678.