Synthesis of new bile alcohols in 24 position

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Bile salts are natural surfactants with a diverse biological activity. Some of its derivatives, have shown antiproliferative, antimicrobial and anticancer activity [1]. Lately, new compounds have been synthesized with a hydrophobic expansion in the region 3β ; as a result, interesting supramolecular properties arise and some of them even show cytotoxic activity in tests recently conducted [2]. In our lab, we synthetized two new deoxycholic acid with adamantyl and nicotinamyl derivatives with moieties at 3β position. The compounds were obtained from methyl 3β - aminodeoxycholate and adamantyl and nicotinamyl acyl chlorides. The resultant amide was hydrolyzed and reduced with borane, to generate the desired compounds. [2] Products were fully characterized by NMR, Mass and Monocristal X ray difratometry. Biological tests are being carried out these days.

References

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