





Azasteroids from diosgenin: Synthesis and evaluation of their antiproliferative activity

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Highlights

- The 4-azasteroid from diosgenin was prepared in three steps under MW irradiation.
- The β -lactam in ring *B* was achieved from Beckmann rearrangement of the oxime in C-7.
- The cytotoxicity test of the azasteroidal compounds showed lower toxicity in LPBH.
- Lactam-type enamide derivative shows activity in cancer cell line MDA-MB-231.

Abstract

In this work, we report the synthesis of two new azasteroids through the modification of the A and B rings of diosgenin **1**. The 4-azasteroid derivative **12** was prepared in three steps using the α,β -