

Molecules **2000**, *5*, M187

8a,9a-Epoxy Nor-31-lanosten-3-one

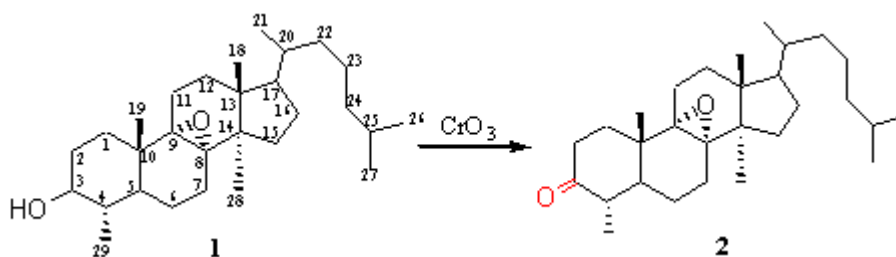
M. Daoubi^{1*}, A. Benharref¹, E. Kossareva² and M. Pierrot²

¹ Laboratoire de Chimie des Substances Naturelles et Hétérocycles, Université Cadi Ayyad, Faculté des Sciences Semlalia, B.P : 2390, Marrakech. Maroc.

E-mail: m_daoubi@hotmail.com.

² LBS-UMR 6517, Centre Scientifique Saint-jérôme, 13397 Marseille, CEDEX 20, France.

Received: 29 October 2000 / Accepted: 30 November 2000 / Published: 25 December 2000



To the epoxide **1** (1 g, 2.32 mmol) in acetone (50 ml) [**1**] was added dropwise at 0°C a solution of CrO₃ (0.7 g, 7 mmol) in acetone (20 ml). After stirring for 2 hours, the solvent was removed *in vacuo*. Water was added and the product was extracted by 3 times CH₂Cl₂. The organic layer was dried (Na₂SO₄), concentrated and purified by chromatography on silica gel column using hexane/EtOAc 93/7 as solvent to give **2** (0.73 g, 72 %).

Mp : 153-154 °C.

IR : 1740 cm⁻¹.

MS (EI, 70eV) : 428.7 (M⁺).

¹H NMR (200 MHz, CDCl₃) : 0.74 (s, C18-H₃); 0.82 (s, C19-H₃); 0.79 (d, J=6 Hz, C21-H₃); 0.77 (d, J=6 Hz, C26 and C27-H₆); 1.22 (s, C28-H₃); 0.80 (d, J=6 Hz, C29-H₃).

¹³C NMR (50 MHz, CDCl₃) : 33.13 (C1); 38.44 (C2); 211.10 (C3); 47.31 (C4); 44.06 (C5); 21.50 (C6); 27.44 (C7); 68.27 (C8); 66.93 (C9); 47.73 (C10); 22.04 (C11); 30.90 (C12); 42.61 (C13); 36.38 (C14); 35.3 (C15); 35.13 (C16); 41.95 (C17); 10.55 (C18); 18.89 (C19); 25.85 (C20); 19.81 (C21); 36.59 (C22); 23.03 (C23); 26.95 (C24); 36.22 (C25); 15.16 (C26); 14.51 (C27); 21.51 (C28); 21.80 (C29).

The structure of the compound **2** were established by X-ray crystal structure determination.

Reference

[1] Smissman, E. E.; Pengman, E.; Greese, M. W. *J. Org. Chem.* **1970**, *64*, 1352-1356.

Sample availability : Available from the authors and MDPI.

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