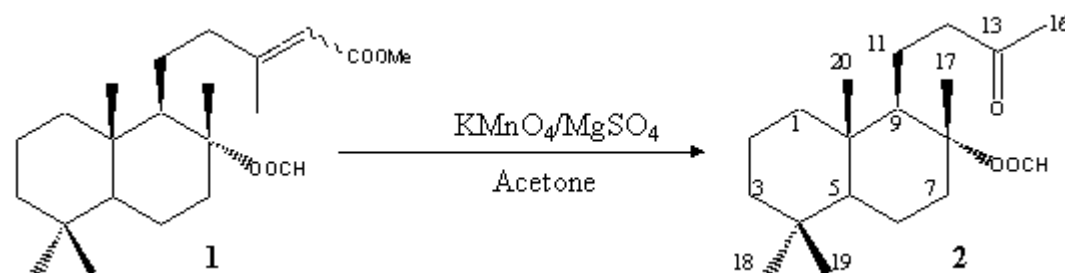


8a-Formyloxy-14,15-dinorlabdan-13-one**[(-)-4-((1R,2R,4aS,8aS)-2-Formyloxy-2,5,5,8a-tetramethyldecahydro-1-naphthalenyl)-2-butanone]****Juan M. Castro, Sofia Salido, Joaquin Altarejos*, Manuel Nogueras and Adolfo Sanchez**

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To a stirred solution of a mixture of *E/Z* isomers **1** (81 mg, 0.22 mmol, 45:55 ratio) in acetone (5 mL) was added a mixture of KMnO_4 (122 mg, 0.77 mmol) and anhydrous MgSO_4 (120 mg) at 10 °C [1]. After stirring for 10 min reaction was allowed to warm to room temperature. Then another portion of KMnO_4 (25 mg, 0.16 mmol) and anhydrous MgSO_4 (25 mg) was added. After 20 min the crude was filtered over Celite and the clean solution evaporated under reduced pressure to yield a residue which was solved in Et_2O (25 mL). This solution was washed with brine (3×10 mL), dried over anhydrous Na_2SO_4 and the solvent evaporated under reduced pressure to yield a residue (61 mg) which was purified by flash chromatography on silica gel, using a 2:3 hexane/ Et_2O mixture as eluent, to give the title compound **2** (50 mg, 0.16 mmol, 73%).

Mp: 66.0-67.4 °C (white crystals, from hexane).

[α]_D = -22.3° (c 1.01 $\text{cg} \cdot \text{mL}^{-1}$, CHCl_3).IR (KBr, cm^{-1}): 1722, 1198, 1165 (OOCH), 1696 (CO).

^1H NMR (300 MHz, CDCl_3 , d, ppm): 0.79 (3H, s, Me_b -4), 0.86 (3H, s, Me-10), 0.88 (3H, s, Me_a -4), 1.52 (3H, s, Me-8), 2.13 (3H, s, Me-13), 0.93-1.84 (13H, m, H-1,2,3,5,6,7a,9,11), 2.43-2.69 (3H, m, Hb-7, H-12), 8.02 (1H, s, OOH).

^{13}C NMR (75 MHz, CDCl_3 , d, ppm): 39.48 (C-1), 18.17 (C-2), 41.67 (C-3), 33.04 (C-4), 55.50 (C-5), 19.87 (C-6), 39.48 (C-7), 88.99 (C-8), 57.95 (C-9), 39.48 (C-10), 19.26 (C-11), 46.37 (C-12), 208.98 (C-13), 29.78 (C-16), 21.03 (C-17), 33.21 (C-18), 21.32 (C-19), 15.42 (C-20), 160.28 (OOCH).

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References and Notes

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Sample availability: Available from the authors and from MDPI

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