

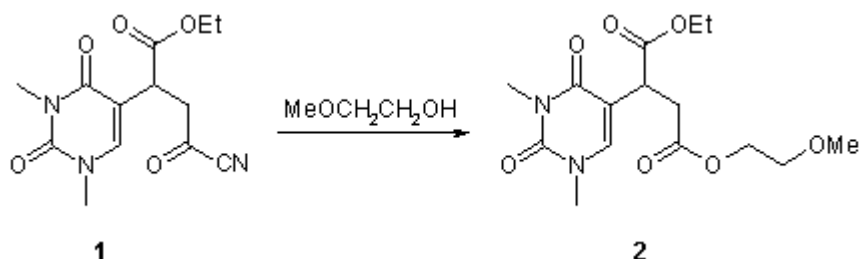
Molecules **1997**, *2*, M5

1-Ethyl 4-(2-methoxyethyl) 2-(1,2,3,4-Tetrahydro-1,3-dimethyl-2,4-dioxypyrimidin-5-yl)butanedioate

Jin-Cong Zhuo* and Hugo Wyler

Institute of Organic Chemistry, University of Lausanne, BCH, CH-1015 Lausanne-Dorigny, Switzerland.
Fax: ++ 41 21 692 3955 (jincong.zhuo@ico.unil.ch)

Received: 1 February 1997 / Published: 15 April 1997



Scheme

The diester **2** was prepared by the addition of 2-methoxyethanol to **1** according to the reported procedure [1].

2-Methoxyethanol (0.16 ml, 2 mmol) was added to a solution of **1** (293 mg, 1 mmol) in CH_2Cl_2 (5 ml). The mixture was left at r.t. for 30 min and filtered through a pad of silica gel (EtOAc) afforded the title compound **2**, a colourless oil: 340 mg (99 %).

IR (neat): 3070m, 1733vs, 1702vs, 1660vs, 1640vs, 1480s, 1460s, 1375s, 1345s, 1270s, 1255s, 1155s, 1128s, 1095s, 1030s, 920s, 860s, 780s, 755s.

$^1\text{H-NMR}$ (CDCl_3): 7.26 (s, 1H, H-6'); 4.24 and 4.20 (2x dt, $J = 12.0, 4.6$, $\text{CO}_2\text{CH}_2\text{CH}_2\text{OMe}$); 4.20 and 4.17 (2x dq, $J = 11.0, 7.1$, $\text{CO}_2\text{CH}_2\text{Me}$), 3.91 (dd, $J = 7.8, 6.0$, H-2); 3.58 (t, $J = 4.6$, $\text{CO}_2\text{CH}_2\text{CH}_2\text{OMe}$); 3.40 (s, Me-1'); 3.37 (OMe); 3.34 (s, Me-3'); 3.12 (dd, $J = 17.2, 6.0$, 1H, H-3); 2.86 (dd, $J = 17.2, 7.8$, 1H, H-3); 1.24 (t, $J = 7.1$, $\text{CO}_2\text{CH}_2\text{Me}$).

$^{13}\text{C-NMR}$ (CDCl_3): 171.1 (C-4), 171.0 (C-1), 161.9 (C-4'), 151.0 (C-2'), 141.6 (C-6'), 109.7 (C-5'), 69.7 ($\text{OCH}_2\text{CH}_2\text{OMe}$), 63.2 ($\text{OCH}_2\text{CH}_2\text{OMe}$), 60.8 ($\text{CO}_2\text{CH}_2\text{Me}$), 58.3 (OCH₃), 39.7 (C-2), 36.5 (Me-3'), 34.7 (C-3), 27.4 (Me-1'), 13.5 ($\text{CO}_2\text{CH}_2\text{CH}_3$).

EI-MS: 342 (M^+ , 4), 297(7), 296 (20), 268 (19), 267 (8), 266 (17), 239 (8), 238 (33), 237 (14), 194 (15), 193 (100), 167 (8), 166 (26), 165 (19), 110 (5), 81 (28), 80 (15), 69 (4), 68 (7), 59 (29), 56 (2).

Acknowledgment: We thank the Swiss National Foundation for financial support.

References

1. Zhuo, J.-C.; Wyler, H. *Helv. Chim. Acta* **1993**, *76*, 1916.

Sample Availability: Available from MDPI, 0.3g, MDPI 10055.

© 1997 MDPI. All rights reserved