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1-Ethyl 4-(1,1-dimethylethyl) 2-(1,2,3,4-Tetrahydro-1,3-dimethyl-2,4-dioxopyrimidin-5-yl)butanedioate

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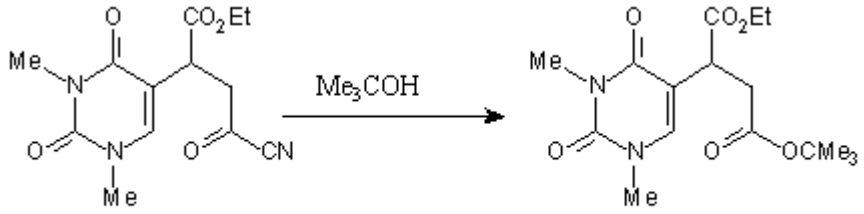

1 **2**

Scheme

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

tert-Butanol (0.2 ml) 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 3 h. Evaporation of the solvent under reduced pressure afforded the title compound **2**, a colourless oil: 340 mg (100 %).

IR (neat): 3070m, 1730vs, 1705vs, 1660vs, 1645vs, 1480s, 1460s, 1365s, 1345s, 1275s, 1255s, 1180s, 1150s, 1020s, 845s, 780s, 755s.

^{1}H-NMR ($CDCl_3$): 7.23 (s, 1H, H-6'); 4.20 and 4.15 (2x dq, J = 11.0, 7.1, CO_2CH_2Me), 3.90 (dd, J = 7.1, 6.7, H-2); 3.39 (s, Me-1'); 3.34 (s, Me-3'); 2.95 (dd, J = 16.8, 6.7, 1H, H-3); 2.67 (dd, J = 16.8, 7.1, 1H, H-3); 1.41 (s, 9H, $CO_2C(CH_3)_3$); 1.24 (t, J = 7.1, $CO_2CH_2CH_3$).

^{13}C-NMR ($CDCl_3$): 173.6 ($CO_2C(CH_3)_3$), 171.5 (CO_2CH_2Me), 162.2 (C-4'), 151.1 (C-2'), 141.7 (C-6'), 110.0 (C-5'), 69.1 ($CO_2C(CH_3)_3$), 61.0 (CO_2CH_2Me), 39.7 (C-2), 36.7 (Me-3'), 34.6 (C-3), 27.6 (Me-1'), 30.5 ($CO_2C(CH_3)_3$), 13.6 ($CO_2CH_2CH_3$).

EI-MS: 340 (M^+, 1), 285 (4), 284 (28), 267 (17), 266 (5), 239 (21), 238 (52), 237 (4), 210 (23), 194 (11), 193 (90), 169 (8), 167 (35), 166 (49), 165 (24), 110 (10), 81 (33), 80 (18), 69 (3), 68 (8), 59 (14), 58 (12), 57 (100), 56 (11).

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References

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

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