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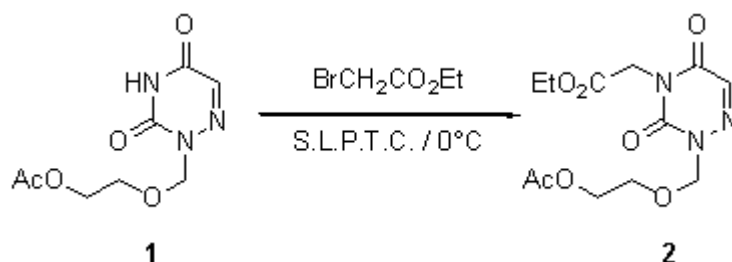
1-[(2-Acetoxyethoxy)methyl]-3-ethoxycarbonylmethyl-6-azauracil

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The product **2** was prepared via a direct condensation under solid-liquid phase transfer catalysis (S.L.P.T.C.) [1] conditions. To a solution of 0.02 mmole of tetraglyme in 4 ml of anhydrous THF, 0.11 mmole of potassium tert-butoxide is added. Then 0.1 mmole of the acyclonucleoside **1** [2] is added, the reaction mixture is stirred at room temperature for 15 min. The reaction mixture is cooled to 0°C and 0.11 mmole of alkylating agent in 2 ml of dry THF is added dropwise with stirring. When the addition is finished, the reaction mixture is stirred at 0°C for 30 min. The reaction mixture is then filtered and the filtrate is evaporated in vacuo to dryness. The residue is then chromatographed on a silica gel column and the expected acyclonucleoside **2** was isolated. Yield: 90 % (viscous and colourless).

R_f: 0.64 (CHCl₃ / MeOH, 9/1, V/V).

¹H NMR (DMSO-d₆): 1.20 (t, 3H, CH₃CH₂); 2.00 (s, 3H, COOCH₃); 3.75 (m, 2H, OCH₂CH₂O); 4.10 (m, 2H, OCH₂CH₂O); 4.20 (q, 2H, CH₃CH₂); 4.75 (s, 2H, NCH₂); 5.25 (s, 2H, OCH₂N); 7.70 (s, 1H, H⁵).

UV (λ max (nm), H₂O): 265.

MS (FAB, m/z): 316 [MH]⁺

Anal. calc. for C₁₂H₁₇N₃O₇: C 45.71, H 5.43, N 13.33; Found: C 45.69, H 5.40, N 13.40.

References

1. Lazrek, H. B.; Taourirte, M.; Barascut, J. L.; Imbach, J. L. *Nucleosides & Nucleotides* **1991**, *10*, 1285-1293.
2. Purkayastha, S.; Lazrek, H. B.; Panzica, R. P.; Naguib, F. N. M.; El-Kouni, M. H. *Nucleosides & Nucleotides* **1989**, *8*, 349-356.

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Sample Availability: Available from the authors.

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