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Short Note

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

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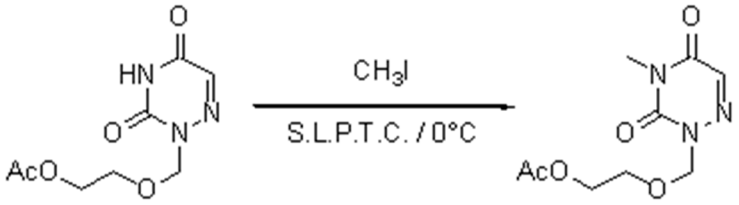

1 **2**

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 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).

Rf: 0.76 ($CHCl_3$ / MeOH, 9/1, V/V).

^{1}H NMR ($CDCl_3$): 2.06 (s, 3H, $COOCH_3$); 3.63 (s, 3H, CH_3); 3.75 (m, 2H, OCH_2CH_2O); 4.15 (m, 2H, OCH_2CH_2O); 5.43 (s, 2H, OCH_2N); 7.45 (s, 1H, H^5).

UV (λ max (nm), H_2O): 273.

MS (FAB, m/z): 244 $[MH]^+$.

Anal. calc. for $C_9H_{13}N_3O_5$: C 44.44, H 5.38, N 17.27; Found: C 44.41, H 5.28, N 17.00.

References

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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.