1-[(2-Acetoxyethoxy)methyl]-3-allyl-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.) \cite{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 \cite{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: 0.73 (CHCl\textsubscript{3} / MeOH, 9/1, V/V).

\textsuperscript{1}H NMR (DMSO-d\textsubscript{6}): 2.06 (s, 3H, COOCH\textsubscript{3}); 3.75 (m, 2H, OCH\textsubscript{2}CH\textsubscript{2}O); 4.05 (m, 2H, OCH\textsubscript{2}CH\textsubscript{2}O); 4.50 (d, 2H, NCH\textsubscript{2}); 5.15 (d, 1H, Hcis); 5.25 (s, 2H, OCH\textsubscript{2}N); 5.30 (d, 1H, Htrans); 5.90 (m, 1H, CH=C); 7.65 (s, 1H, H\textsubscript{5}).

UV (l max (nm), H\textsubscript{2}O): 273.

MS (FAB, m/z): 270 [MH]\textsuperscript{+}

Anal. calc. for C\textsubscript{11}H\textsubscript{15}N\textsubscript{3}O\textsubscript{5}: C 49.07, H 5.61, N 15.61; Found: C 49.00, H 5.50, N 15.50.

References


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Sample Availability: Available from the authors.

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