Poster Session II

Herpesvirus Infections

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Syntheses and *in vivo* Antiviral Activity of Prodrugs of an N7-Isomeric Acyclic Nucleoside Analogue.

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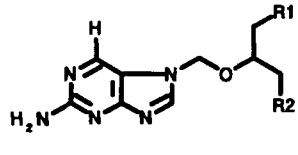
The regioselective synthesis of N7-substituted 2-aminopurines using persilylated 2-acetamido-6-chloropurine as starting material, especially the acyclic nucleoside analogue **I** (compound 2242), and ether-, ester-, and mixed ether-ester-prodrugs thereof, is described. The *in vivo* antiviral activity after oral administration of the parent compound **I** in HSV-1 infected mice is evaluated and compared with the activity of the prodrugs **II - VII**. The diacetate **III** (code number HOE 961) proved to be the best compound in this model and was selected for further development.



I:	R1 = R2 = OH
II:	R1 = R2 = OiPr
III:	R1 = R2 = $OC(O)CH_3$ (HOE 961)
IV:	R1 = R2 = $OC(O)CH_2CH_3$
V:	R1 = R2 = $OC(O)C(CH_3)_3$
VI:	R1 = R2 = OC(O)Ph
VII:	R1 = OiPr, R2 = $OC(O)CH_3$