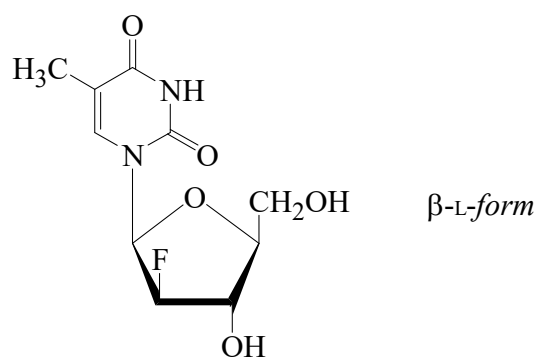




>>Entry Name: Clevudine, INN, USAN

Synonym(s): 1-(2-Deoxy-2-fluoroarabinofuranosyl)-5-methyl-2,4(1*H*,3*H*)-pyrimidinedione, 9Cl. 1-(2-Deoxy-2-fluoroarabinofuranosyl)thymine. 2'-Fluoro-5-methylarabinofuranosyluracil. FMAU



Related CAS Registry Numbers(s): 97672-34-9 172494-45-0

Molecular Formula: C₁₀H₁₃FN₂O₅

Molecular Weight: 260.222

Accurate Mass: 260.080851

Percentage Composition: C 46.16%; H 5.04%; F 7.30%; N 10.77%; O 30.74%

General Statement: Strictly, the name Clevudine refers to the β-L-form

Biological Use/Importance: Antiviral agent for hepatitis B virus and Epstein-Barr virus

>>Variant: β-D-form

Synonym(s): β-FMAU. D-FMAU

CAS Registry Number: 69256-17-3

Molecular Formula: C₁₀H₁₃FN₂O₅

Molecular Weight: 260.222

Accurate Mass: 260.080851

Percentage Composition: C 46.16%; H 5.04%; F 7.30%; N 10.77%; O 30.74%

Biological Use/Importance: Antiviral agent with antineoplastic activity *in vitro*

Physical Description: Cryst. (H₂O)

Development Status: Clin. trial discontinued due to neurotoxic effects

Melting Point: Mp 187-188°

>>Variant: β-L-form

Synonym(s): L-FMAU

CAS Registry Number: 163252-36-6

Molecular Formula: C₁₀H₁₃FN₂O₅

Molecular Weight: 260.222

Accurate Mass: 260.080851

Percentage Composition: C 46.16%; H 5.04%; F 7.30%; N 10.77%; O 30.74%

Physical Description: Cryst. (MeOH/CHCl₃)

Melting Point: Mp 184-185°

Optical Rotation: [α]_D²⁵ -111.77 (c, 0.23 in MeOH)

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