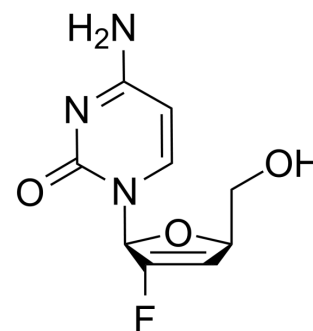


L-2'-Fd4C

Cat. No.:	HY-148171
CAS No.:	221662-50-6
Molecular Formula:	C ₉ H ₁₀ FN ₃ O ₃
Molecular Weight:	227.19
Target:	HIV; HBV; DNA/RNA Synthesis; Nucleoside Antimetabolite/Analog
Pathway:	Anti-infection; Cell Cycle/DNA Damage
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	L-2'-Fd4C, is an l-nucleoside analogue. L-2'-Fd4C has anti-human immunodeficiency virus (HIV) and anti-hepatitis B virus (HBV) activity ^[1] .	
In Vitro	L-2'-Fd4C (0-10 μM; 9 d; HepG2-2.2.15 cells) inhibits anti-hepatitis B virus (HBV) replication with an EC ₅₀ value of 0.002 μM ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
In Vivo	L-2'-Fd4C (100 mg/kg; i.p.; daily, for 7 d) has antihepadnavirus potency in HBV-transgenic mice ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
	Animal Model:	HBV-transgenic mice ^[1]
	Dosage:	100 mg/kg
	Administration:	Intraperitoneal injection; daily, for 7 days
	Result:	Had a reduction of HBV levels in their blood comparable to that produced by Lamivudine (HY-B0250).

REFERENCES

[1]. Chen H, et, al. Antiviral activity and pharmacokinetics of 1-(2,3-dideoxy-2-fluoro-beta-L-glyceropent-2-enofuranosyl)cytosine. Antimicrob Agents Chemother. 2003 Jun;47(6):1922-8.

Caution: Product has not been fully validated for medical applications. For research use only.

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