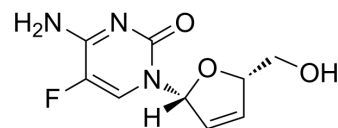


Dexelvucitabine

Cat. No.:	HY-14920		
CAS No.:	134379-77-4		
Molecular Formula:	C ₉ H ₁₀ FN ₃ O ₃		
Molecular Weight:	227.19		
Target:	Reverse Transcriptase; HIV		
Pathway:	Anti-infection		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 50 mg/mL (220.08 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	4.4016 mL	22.0080 mL	44.0160 mL
		5 mM	0.8803 mL	4.4016 mL	8.8032 mL
10 mM		0.4402 mL	2.2008 mL	4.4016 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (11.00 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (11.00 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (11.00 mM); Clear solution 				

BIOLOGICAL ACTIVITY

Description	Dexelvucitabine (Reverset; d-d4FC), a Cytidine (HY-B0158) analog, is an orally active nucleoside reverse transcriptase inhibitor. Dexelvucitabine is a powerful agent against HIV-1-resistant viruses containing a thymidine analog and/or M184V mutation in the viral polymerase. Dexelvucitabine is a 2'-Deoxycytidine antiretroviral agent ^[1] .
IC₅₀ & Target	HIV-1
In Vivo	Dexelvucitabine (Reverset; d-d4FC; 33.3 mg/kg by i.v. or p.o.) has distribution and elimination half-lives (t _{1/2α} and t _{1/2β} ,

respectively) of 0.7 and 3.6 h in monkeys, respectively. The C_{max} ranges from 21.1 to 47.5 μM ^[2].
Dexelvucitabine has a favorable pharmacokinetic profile with a long half-life (4.71 and 10.75 h after administration by the intravenous [i.v.] and oral [p.o.] routes, respectively) in woodchucks^[2].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Brenda I Hernandez-Santiago, et al. Antiviral and cellular metabolism interactions between Dexelvucitabine and lamivudine. *Antimicrob Agents Chemother.* 2007 Jun;51(6):2130-5.
- [2]. L Ma, et al. Pharmacokinetics of the antiviral agent beta-D-2',3'-didehydro-2',3'-dideoxy-5-fluorocytidine in rhesus monkeys. *Antimicrob Agents Chemother.* 1999 Feb;43(2):381-4.
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Caution: Product has not been fully validated for medical applications. For research use only.

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