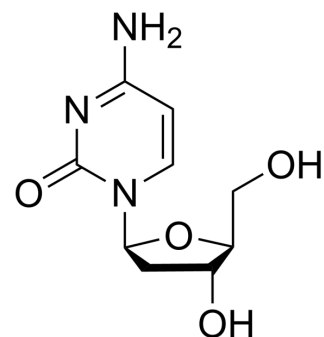


## Torcitabine

<b>Cat. No.:</b>	HY-121513		
<b>CAS No.:</b>	40093-94-5		
<b>Molecular Formula:</b>	C <sub>9</sub> H <sub>13</sub> N <sub>3</sub> O <sub>4</sub>		
<b>Molecular Weight:</b>	227.22		
<b>Target:</b>	HBV		
<b>Pathway:</b>	Anti-infection		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

#### In Vitro

H<sub>2</sub>O : 250 mg/mL (1100.26 mM; Need ultrasonic)  
 DMSO : 250 mg/mL (1100.26 mM; Need ultrasonic)

	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	4.4010 mL	22.0051 mL	44.0102 mL
	5 mM	0.8802 mL	4.4010 mL	8.8020 mL
	10 mM	0.4401 mL	2.2005 mL	4.4010 mL

Please refer to the solubility information to select the appropriate solvent.

#### In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline  
 Solubility: ≥ 2.08 mg/mL (9.15 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
 Solubility: ≥ 2.08 mg/mL (9.15 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
 Solubility: ≥ 2.08 mg/mL (9.15 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

Torcitabine (2'-Deoxy-L-cytidine) is an antiviral agent. Torcitabine has the potential for chronic hepatitis B virus infection treatment<sup>[1][2]</sup>.

#### In Vitro

Torcitabine (2'-Deoxy-L-cytidine) shows greater inhibition of first strand than second strand DNA synthesis<sup>[2]</sup>.  
 MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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## REFERENCES

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[1]. Buti M, et al. Drugs in development for hepatitis B. *Drugs*. 2005;65(11):1451-1460.

[2]. Keam SJ. Telbivudine. *Drugs*. 2007;67(13):1917-1929.

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

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