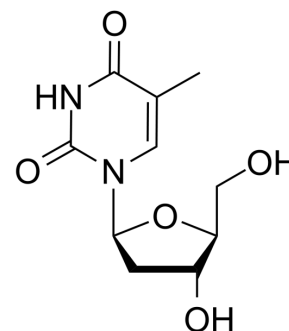


Telbivudine

Cat. No.:	HY-B0017		
CAS No.:	3424-98-4		
Molecular Formula:	C ₁₀ H ₁₄ N ₂ O ₅		
Molecular Weight:	242.23		
Target:	HBV		
Pathway:	Anti-infection		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro

DMSO : 50 mg/mL (206.42 mM; Need ultrasonic)
 H₂O : 33.33 mg/mL (137.60 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	4.1283 mL	20.6415 mL	41.2831 mL
	5 mM	0.8257 mL	4.1283 mL	8.2566 mL
	10 mM	0.4128 mL	2.0642 mL	4.1283 mL

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

In Vivo

- Add each solvent one by one: PBS
Solubility: 10 mg/mL (41.28 mM); Clear solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 3.25 mg/mL (13.42 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 3.25 mg/mL (13.42 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 3.25 mg/mL (13.42 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Telbivudine (Epavudine), an orally active thymidine nucleoside analog, is a potent antiviral inhibitor of hepatitis B virus (HBV) replication^[1].

In Vitro

Telbivudine reverses B19V-induced dysregulation of BIRC3, thus, intervening in the apoptosis pathway and protecting

susceptible cells from cell death^[2].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Chem Biol Interact. 2023 Sep 1;383:110692.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Kim JW, et al. Telbivudine: a novel nucleoside analog for chronic hepatitis B. Ann Pharmacother. 2006;40(3):472-478.

[2]. Zobel T, et al. Telbivudine Reduces Parvovirus B19-Induced Apoptosis in Circulating Angiogenic Cells. Viruses. 2019;11(3):227. Published 2019 Mar 6.

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

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