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Zuschläge

- Mindermengenzuschlag
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- Gefahrgutzuschlag
- Expressversand

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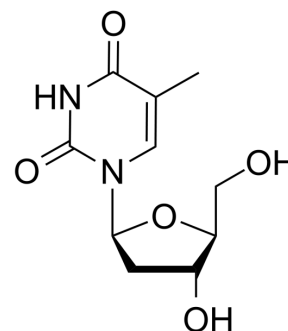
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Telbivudine

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)

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	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

1. Add each solvent one by one: PBS
Solubility: 10 mg/mL (41.28 mM); Clear solution; Need ultrasonic
2. 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
3. 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
4. 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.

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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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