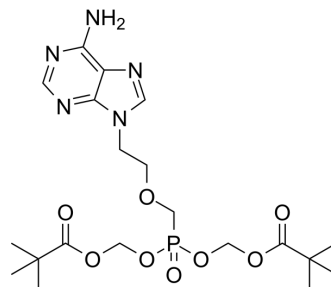


Adefovir dipivoxil

Cat. No.:	HY-B0255		
CAS No.:	142340-99-6		
Molecular Formula:	C ₂₀ H ₃₂ N ₅ O ₈ P		
Molecular Weight:	501.47		
Target:	HBV; Reverse Transcriptase; Endogenous Metabolite; Orthopoxvirus		
Pathway:	Anti-infection; Metabolic Enzyme/Protease		
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 : ≥ 100 mg/mL (199.41 mM)
 H₂O : 0.67 mg/mL (1.34 mM; Need ultrasonic)
 * "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	1.9941 mL	9.9707 mL	19.9414 mL
	5 mM	0.3988 mL	1.9941 mL	3.9883 mL
	10 mM	0.1994 mL	0.9971 mL	1.9941 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: ≥ 2.5 mg/mL (4.99 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.5 mg/mL (4.99 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (4.99 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Adefovir dipivoxil, an adenosine analogue, is an oral proagent of the nucleoside reverse transcriptase inhibitor Adefovir. Adefovir dipivoxil inhibits both the wild type and HBV Lamivudine-resistant strains^{[1][2]}. Adefovir dipivoxil shows anti-orthopoxvirus activity.

CUSTOMER VALIDATION

- Int J Mol Med. 2019 Jun;43(6):2491-2498.

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REFERENCES

- [1]. Mark N Prichard, et al. Orthopoxvirus targets for the development of antiviral therapies. Curr Drug Targets Infect Disord. 2005 Mar;5(1):17-28.
- [2]. Noble S, et al. Adefovir dipivoxil. Drugs. 1999;58(3):479-489.
- [3]. Buti M, et al. Adefovir dipivoxil. Drugs Today (Barc). 2003;39(2):127-135.
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Caution: Product has not been fully validated for medical applications. For research use only.

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