

## **Product** Data Sheet

## **Alovudine**

Cat. No.: HY-B1516

CAS No.: 25526-93-6

Molecular Formula:  $C_{10}H_{13}FN_2O_4$ Molecular Weight: 244.22

Target: DNA/RNA Synthesis; Orthopoxvirus

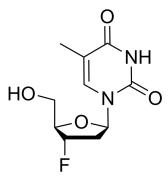
Pathway: Cell Cycle/DNA Damage; Anti-infection

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: 100 mg/mL (409.47 mM; Need ultrasonic)

 $H_2O : \ge 25 \text{ mg/mL } (102.37 \text{ mM})$ 

\* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
	1 mM	4.0947 mL	20.4733 mL	40.9467 mL
	5 mM	0.8189 mL	4.0947 mL	8.1893 mL
	10 mM	0.4095 mL	2.0473 mL	4.0947 mL

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

In Vivo

- 1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (8.52 mM); Clear solution
- 2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (8.52 mM); Clear solution
- 3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (8.52 mM); Clear solution

## **BIOLOGICAL ACTIVITY**

Description

Alovudine (3'-Fluoro-3'-deoxythymidine) is a marker of DNA synthesis that is less susceptible to inflammatory changes than  $^{18}$ F-Fluorodeoxyglucose (FDG) and thus is a better biomarker in pancreatic cancer. Alovudine shows anti-orthopoxvirus activity  $^{[1][2]}$ .



 $\label{lem:caution:Product} \textbf{Caution: Product has not been fully validated for medical applications. For research use only.}$ 

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