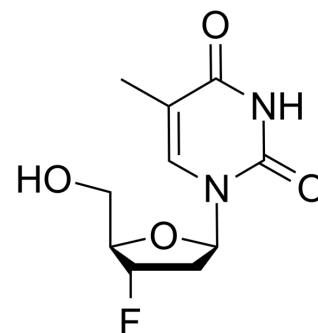


## Alovudine

Cat. No.:	HY-B1516		
CAS No.:	25526-93-6		
Molecular Formula:	C <sub>10</sub> H <sub>13</sub> FN <sub>2</sub> O <sub>4</sub>		
Molecular Weight:	244.22		
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<sub>2</sub>O : ≥ 25 mg/mL (102.37 mM)

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

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

- 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
- 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
- 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 <sup>18</sup>F-Fluorodeoxyglucose (FDG) and thus is a better biomarker in pancreatic cancer. Alovudine shows anti-orthopoxvirus activity<sup>[1][2]</sup>.

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

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