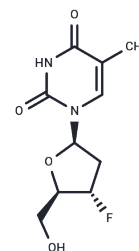


## Alovudine

## Chemical Properties

CAS No. :	25526-93-6
Formula:	C <sub>10</sub> H <sub>13</sub> FN <sub>2</sub> O <sub>4</sub>
Molecular Weight:	244.22
Storage:	Keep away from direct sunlight Powder: -20°C for 3 years   In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



## Biological Description

Description	Alovudine (3'-Deoxy-3'-fluorothymidine) is a marker of DNA synthesis. Alovudine is less susceptible to inflammatory changes than 18F-Fluorodeoxyglucose (FDG) and is a better biomarker in pancreatic cancer.
Targets(IC50)	Antiviral,DNA/RNA Synthesis,Virus Protease

## Solubility Information

Solubility	DMSO: 55 mg/mL (225.21 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween-80+45% Saline: 2.5 mg/mL (10.24 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

## Preparing Stock Solutions

	1mg	5mg	10mg
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
50 mM	0.0819 mL	0.4095 mL	0.8189 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Ghosn, J., Quinson, A., Sabo, N., Cotte, L., Piketty, C., & Dorléacq, N. et al. (2007). Antiviral activity of low-dose alovudine in antiretroviral-experienced patients: results from a 4-week randomized, double-blind, placebo-controlled dose-ranging trial. *HIV Medicine*, 8(3), 142-147. doi: 10.1111/j.1468-1293.2007.00444.x

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