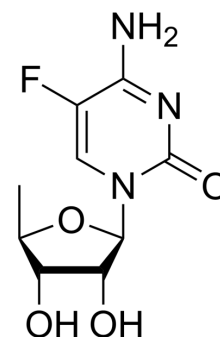


5-Fluoro-5'-deoxycytidine

Cat. No.:	HY-W009538
CAS No.:	66335-38-4
Molecular Formula:	C ₉ H ₁₂ FN ₃ O ₄
Molecular Weight:	245.21
Target:	Nucleoside Antimetabolite/Analog
Pathway:	Cell Cycle/DNA Damage
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (407.81 mM; Need ultrasonic)				
		Solvent Concentration	Mass		
	Preparing Stock Solutions		1 mg	5 mg	10 mg
		1 mM	4.0781 mL	20.3907 mL	40.7814 mL
		5 mM	0.8156 mL	4.0781 mL	8.1563 mL
	10 mM	0.4078 mL	2.0391 mL	4.0781 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (10.20 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (10.20 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (10.20 mM); Clear solution 				

BIOLOGICAL ACTIVITY

Description	5-Fluoro-5'-deoxycytidine is a cytidine analog. Cytidine analogs have a mechanism of inhibiting DNA methyltransferases (such as Zebularine, HY-13420), and have potential anti-metabolic and anti-tumor activities ^[1] .
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REFERENCES

[1]. Gowher H, et al. Mechanism of inhibition of DNA methyltransferases by cytidine analogs in cancer therapy. *Cancer Biol Ther.* 2004 Nov;3(11):1062-8.

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

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