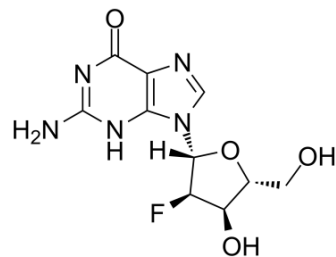


2'-Deoxy-2'-fluoroguanosine

Cat. No.:	HY-W011518
CAS No.:	78842-13-4
Molecular Formula:	C ₁₀ H ₁₂ FN ₅ O ₄
Molecular Weight:	285.23
Target:	Influenza Virus
Pathway:	Anti-infection
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 50 mg/mL (175.30 mM; Need ultrasonic)				
		Solvent Concentration	Mass		
	Preparing Stock Solutions		1 mg	5 mg	10 mg
		1 mM	3.5059 mL	17.5297 mL	35.0594 mL
		5 mM	0.7012 mL	3.5059 mL	7.0119 mL
	10 mM	0.3506 mL	1.7530 mL	3.5059 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: ≥ 2.5 mg/mL (8.76 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (8.76 mM); Clear solution				
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (8.76 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	2'-Deoxy-2'-fluoroguanosine, a nucleoside analog, is a potent inhibitor of influenza virus strains, with an EC ₉₀ of <0.35 μM for influenza virus A and B strains. 2'-Deoxy-2'-fluoroguanosine significantly inhibits replication of influenza virus in the upper respiratory tract, resulting in amelioration of fever and nasal inflammation ^{[1][2]} .
IC ₅₀ & Target	EC90: <0.35 μM (influenza virus A and B) ^[1]

REFERENCES

[1]. Tisdale M, et, al. Inhibition of influenza virus transcription by 2'-deoxy-2'-fluoroguanosine. *Antimicrob Agents Chemother.* 1995 Nov;39(11):2454-8.

[2]. Jakeman KJ, et, al. Efficacy of 2'-deoxy-2'-fluororibosides against influenza A and B viruses in ferrets. *Antimicrob Agents Chemother.* 1994 Aug;38(8):1864-7.

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

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