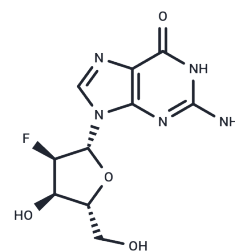


## 2'-Deoxy-2'-fluoroguanosine

## Chemical Properties

CAS No. :	78842-13-4
Formula:	C10H12FN5O4
Molecular Weight:	285.23
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



## Biological Description

Description	2'-Deoxy-2'-fluoroguanosine is a nucleoside analog that potently inhibits influenza virus A and B strains (EC <sub>90</sub> < 0.35 μM). 2'-Deoxy-2'-fluoroguanosine is an inhibitor of influenza virus replication in the upper respiratory tract, improving fever and nasal inflammation.
Targets(IC50)	Nucleoside Antimetabolite/Analog, Influenza Virus

## Solubility Information

Solubility	DMSO: 50 mg/mL (175.3 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 mg/mL (7.01 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	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	1.753 mL	3.5059 mL
50 mM	0.0701 mL	0.3506 mL	0.7012 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

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

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.

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