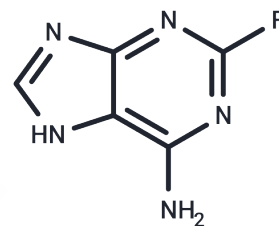


2-Fluoroadenine

Chemical Properties

CAS No. :	700-49-2
Formula:	C ₅ H ₄ FN ₅
Molecular Weight:	153.12
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-Fluoroadenine (NSC-27364) has toxicity in nonproliferating and proliferating tumor cells. 2-Fluoroadenine can be used for anticancer studies.
Targets(IC50)	DNA/RNA Synthesis
In vitro	In Balb-3T3 cells, 2-Fluoroadenine (0.22, 2.2 and 22 μM; 30 hours) inhibits protein, RNA, and DNA syntheses. In CEM cells, 2-Fluoroadenine (2 μM; 4 hours) inhibits CEM cell growth by targeting one or more enzymes involved in either RNA or protein synthesis. In nonproliferating MRC-5 cells, 2-Fluoroadenine (0-1000 μM; 96 hours) exhibits cytotoxicity[2].

Solubility Information

Solubility	DMSO: 4.4 mg/mL (28.74 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: 1 mg/mL (6.53 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	6.5308 mL	32.6541 mL	65.3083 mL
5 mM	1.3062 mL	6.5308 mL	13.0617 mL
10 mM	0.6531 mL	3.2654 mL	6.5308 mL
50 mM	0.1306 mL	0.6531 mL	1.3062 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

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