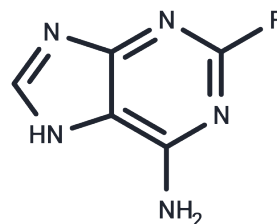


2-Fluoroadenine

Chemical Properties

CAS No. :	700-49-2
Formula:	C ₅ H ₄ FN ₅
Molecular Weight:	153.12
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



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 μ M; 30 hours) inhibits protein, RNA, and DNA syntheses. In CEM cells, 2-Fluoroadenine (2 μ M; 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 μ M; 96 hours) exhibits cytotoxicity[2].

Solubility Information

Solubility	DMSO: 4.4 mg/mL (26.97 mM), (< 1 mg/ml refers to the product slightly soluble or insoluble)
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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.

Reference

Rackwitz J, Kopyra J, Dąbkowska I, Ebel K, Ranković MLj, Milosavljević AR, Bald I. Sensitizing DNA Towards Low-Energy Electrons with 2-Fluoroadenine. Angew Chem Int Ed Engl. 2016 Aug 22;55(35):10248-52. doi: 10.1002

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