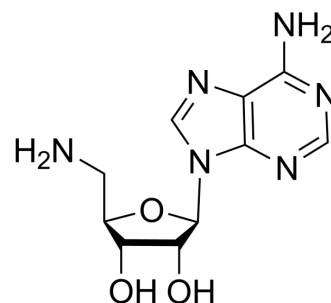


5'-Amino-5'-deoxyadenosine

Cat. No.:	HY-131818		
CAS No.:	14365-44-7		
Molecular Formula:	C ₁₀ H ₁₄ N ₆ O ₃		
Molecular Weight:	266.26		
Target:	Nucleoside Antimetabolite/Analog		
Pathway:	Cell Cycle/DNA Damage		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 200 mg/mL (751.15 mM; Need ultrasonic)

Concentration	Solvent	Mass	1 mg	5 mg	10 mg
			1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		3.7557 mL	18.7786 mL	37.5573 mL
	5 mM		0.7511 mL	3.7557 mL	7.5115 mL
	10 mM		0.3756 mL	1.8779 mL	3.7557 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.08 mg/mL (7.81 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.08 mg/mL (7.81 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.08 mg/mL (7.81 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

5'-Amino-5'-deoxyadenosine (NH₂dAdo; Nsc 238990) is a purine nucleoside analog. Purine nucleoside analogs have broad antitumor activity targeting indolent lymphoid malignancies. Anticancer mechanisms in this process rely on inhibition of DNA synthesis, induction of apoptosis, etc^[1].

REFERENCES

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

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