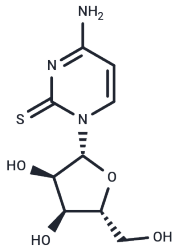
Data Sheet (Cat.No.TNU0436)

TargetMol

2-Thiocytidine

Chemical Properties



CAS No. : 13239-97-9

Formula: C9H13N3O4S

Molecular Weight: 259.28

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-Thiocytidine is a purine nucleoside analog that targets malignant tumors of the inert lymphatic system and possesses a broad spectrum of antitumor activity. It induces apoptosis by inhibiting DNA synthesis.
Targets(IC50)	Apoptosis,Nucleoside Antimetabolite/Analog,DNA/RNA Synthesis

Solubility Information

Solubility	DMSO: 45 mg/mL (173.56 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.8568 mL	19.2842 mL	38.5683 mL
5 mM	0.7714 mL	3.8568 mL	7.7137 mL
10 mM	0.3857 mL	1.9284 mL	3.8568 mL
50 mM	0.0771 mL	0.3857 mL	0.7714 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

Robak T, et al. Purine nucleoside analogs in the treatment of rarer chronic lymphoid leukemias. Curr Pharm Des. 2012;18(23):3373-3388.

Vangaveti S, et al. A Structural Basis for Restricted Codon Recognition Mediated by 2-thiocytidine in tRNA Containing a Wobble Position Inosine. J Mol Biol. 2020;432(4):913-929.

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