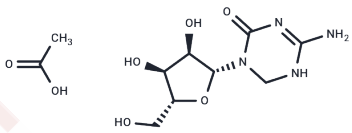
Data Sheet (Cat.No.T78565)

TargetMol

Dihydro-5-azacytidine acetate

Chemical Properties



CAS No. : 2470972-18-8

Formula: C10H18N4O7

Molecular Weight: 306.27

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	Dihydro-5-azacytidine acetate (DHAC), a nucleoside analog, integrates into DNA to inhibit DNA methylation and exhibits antitumor activity [1] [2].
Targets(IC50)	Nucleoside Antimetabolite/Analog,DNA Methyltransferase
In vitro	Methylation analysis reveals a [3H]DHAC LD 10 exposure leads to 25.06% DNA hypomethylation in L1210/0 cells and 46.32% in L1210/dCK(-) deoxycytidine kinase mutant cells relative to controls [2]. Furthermore, dihydro-5-azacytidine (DHAC) vies with cytidine triphosphate for RNA integration, culminating in ribosomal breakdown and impaired protein synthesis [1].
In vivo	In a murine model bearing L1210/0-induced tumors, administration of an LD 10 of Dihydro-5-azacytidine (DHAC; 1500 mg/kg) results in a peak plasma concentration of 317 μM. The compound is biexponentially eliminated, with a first-phase half-life (t 1/2 α) of 1.03 hours and a second-phase half-life (t 1/2 β) of 5 hours [2].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.2651 mL	16.3255 mL	32.6509 mL
5 mM	0.653 mL	3.2651 mL	6.5302 mL
10 mM	0.3265 mL	1.6325 mL	3.2651 mL
50 mM	0.0653 mL	0.3265 mL	0.653 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.

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