Data Sheet (Cat.No.T40713L)

TargetMol

Dihydro-5-azacytidine FA

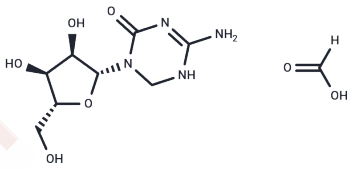
Chemical Properties

CAS No. :

Formula: C9H16N4O7

Molecular Weight: 292.25

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 FA (DHAC) is a pyrimidine analog that has antitumor activity, inhibits cell growth, inhibits DNA methylation, and may be used in the study of malignant mesothelioma.
Targets(IC50)	DNA Methyltransferase

Solubility Information

Solubility	DMSO: 100 mg/mL (342.17 mM),Sonication is recommended. H2O: 100 mg/mL (342.17 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.4217 mL	17.1086 mL	34.2173 mL
5 mM	0.6843 mL	3.4217 mL	6.8435 mL
10 mM	0.3422 mL	1.7109 mL	3.4217 mL
50 mM	0.0684 mL	0.3422 mL	0.6843 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

Robert A Kratzke, et al. Response to the methylation inhibitor dihydro-5-azacytidine in mesothelioma is not associated with methylation of p16INK4a: results of cancer and leukemia group B 159904. J Thorac Oncol. 2008 Apr;3(4):417-21.

W C Powell, et al. Biochemical pharmacology of 5,6-dihydro-5-azacytidine (DHAC) and DNA hypomethylation in tumor (L1210)-bearing mice. Cancer Chemother Pharmacol. 1988;21(2):117-21.

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