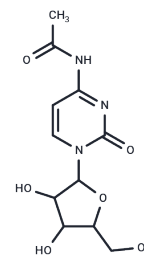


N4-Acetylcytidine

Chemical Properties

CAS No. :	3768-18-1
Formula:	C11H15N3O6
Molecular Weight:	285.25
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	N4-Acetylcytidine (N-Acetylcytidine) is a modified nucleoside. N4-acetylcytidine is an endogenous urinary nucleoside product of the degradation of transfer ribonucleic acid (tRNA); urinary nucleosides are biological markers for patients with colorectal cancer.
Targets(IC50)	NOD-like Receptor (NLR),Endogenous Metabolite,Histone Acetyltransferase,Virus Protease

Solubility Information

Solubility	H2O: 2.94 mg/mL (10.31 mM),Sonication is recommended. DMSO: 250 mg/mL (876.42 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (7.01 mM),Sonication is recommended. 10% DMSO+90% Saline: 10 mg/mL (35.06 mM),Suspension. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.5057 mL	17.5285 mL	35.057 mL
5 mM	0.7011 mL	3.5057 mL	7.0114 mL
10 mM	0.3506 mL	1.7528 mL	3.5057 mL
50 mM	0.0701 mL	0.3506 mL	0.7011 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

Zheng YF,etal.Urinary nucleosides as biological markers for patients with colorectal cancer.World J Gastroenterol. 2005 Jul 7;11(25):3871-6.

Morris GS,etal.Use of biological fluids for the rapid diagnosis of potentially lethal inherited disorders of human purine and pyrimidine metabolism.Biomed Chromatogr. 1986 Jun;1(3):109-18.

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