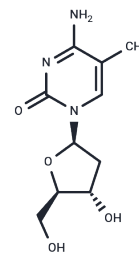


5-Methyl-2'-deoxycytidine

Chemical Properties

CAS No. :	838-07-3
Formula:	C ₁₀ H ₁₅ N ₃ O ₄
Molecular Weight:	241.24
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	5-Methyl-2'-deoxycytidine (5MedCyd) is a pyrimidine nucleoside that when incorporated into single-stranded DNA can act in cis to signal de novo.
Targets(IC50)	Endogenous Metabolite, DNA Methyltransferase

Solubility Information

Solubility	DMSO: 166.67 mg/mL (690.89 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 (8.29 mM), Sonication is recommended. <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	4.1452 mL	20.7262 mL	41.4525 mL
5 mM	0.829 mL	4.1452 mL	8.2905 mL
10 mM	0.4145 mL	2.0726 mL	4.1452 mL
50 mM	0.0829 mL	0.4145 mL	0.829 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

Testillano P S , Solís, María-Teresa, Risueño, María C. The 5-methyl-deoxy-cytidine (5mdC) localization to reveal in situ the dynamics of DNA methylation chromatin pattern in a variety of plant organ and tissue cells during development[J]. *Physiologia Plantarum*, 2013, 149(1):104-113.

Christman J K , Sheikhnejad G , Marasco C J , et al. 5-Methyl-2'-deoxycytidine in single-stranded DNA can act in cis to signal de novo DNA methylation.[J]. *Proceedings of the National Academy of Sciences*, 1995, 92(16):7347-7351.

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