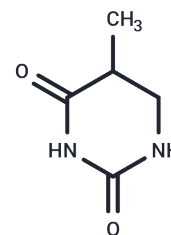


5,6-Dihydro-5-methyluracil

Chemical Properties

CAS No. :	696-04-8
Formula:	C ₅ H ₈ N ₂ O ₂
Molecular Weight:	128.13
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	5,6-Dihydro-5-methyluracil (Dihydrothymine) is an intermediate breakdown product of thymine.
Targets(IC50)	Nucleoside Antimetabolite/Analog, Endogenous Metabolite

Solubility Information

Solubility	Ethanol: 5 mg/mL (39.02 mM), Sonication is recommended. H ₂ O: 10 mg/mL (78.05 mM), Sonication is recommended. DMSO: 60 mg/mL (468.27 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 (15.61 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	7.8046 mL	39.0229 mL	78.0457 mL
5 mM	1.5609 mL	7.8046 mL	15.6091 mL
10 mM	0.7805 mL	3.9023 mL	7.8046 mL
50 mM	0.1561 mL	0.7805 mL	1.5609 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

Hubbard K, et al. Characterization of antibodies to dihydrothymine, a radiolysis product of DNA. Biochemistry. 1989 May 16;28(10):4382-7.

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