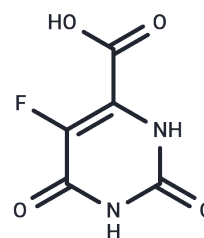


5-Fluoroorotic acid

Chemical Properties

CAS No. :	703-95-7
Formula:	C ₅ H ₃ FN ₂ O ₄
Molecular Weight:	174.09
Storage:	Store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



Biological Description

Description	5-Fluoroorotic acid is an inhibitor of thymidylate synthase. 5-Fluoroorotic is a selective agent in yeast molecular genetics. 5-Fluoroorotic possesses a well-expressed anticandidal effect close to that of 5-fluorocytosine, as well as moderate antidermatophytal effects.
Targets(IC50)	Parasite, Antifungal, DNA/RNA Synthesis

Solubility Information

Solubility	DMSO: 125 mg/mL (718.02 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: 10 mg/mL (57.44 mM), Suspension. 10% DMSO+90% Saline: < 10 mg/mL (57.44 mM), Lower concentrations may be soluble, but exact solubility limit is unknown. <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	5.7442 mL	28.7208 mL	57.4416 mL
5 mM	1.1488 mL	5.7442 mL	11.4883 mL
10 mM	0.5744 mL	2.8721 mL	5.7442 mL
50 mM	0.1149 mL	0.5744 mL	1.1488 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

P K Rathod , A Khatri, T Hubbert, W K Milhous, et al. Selective activity of 5-fluoroorotic acid against Plasmodium falciparum in vitro. Antimicrob Agents Chemother. 1989 Jul;33(7):1090-4.

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