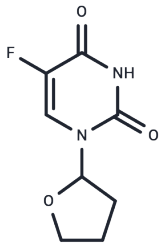
Data Sheet (Cat.No.T1378)

TargetMol

Tegafur

Chemical Properties



CAS No. : 17902-23-7

Formula: C8H9FN2O3

Molecular Weight: 200.17

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	Tegafur (FT 207) is a congener of the antimetabolite fluorouracil with antineoplastic activity. Tegafur is a prodrug that is gradually converted to fluorouracil in the liver by the cytochrome P-450 enzyme.
Targets(IC50)	Nucleoside Antimetabolite/Analog,DNA/RNA Synthesis

Solubility Information

Solubility	DMSO: 50 mg/mL (249.79 mM),Sonication is recommended. Ethanol: 7 mg/mL (34.97 mM),Sonication is recommended. H2O: 8 mg/mL (39.97 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 (9.99 mM),Sonication is recommended. *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.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.9958 mL	24.9788 mL	49.9575 mL
5 mM	0.9992 mL	4.9958 mL	9.9915 mL
10 mM	0.4996 mL	2.4979 mL	4.9958 mL
50 mM	0.0999 mL	0.4996 mL	0.9992 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

Sotaro Sadahiro, et al. Y ChemOthersapy and Pharmacology. 2012, 70 (2): 285-291.

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