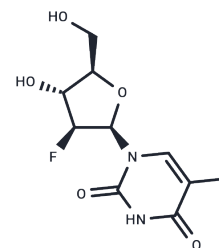


Fialuridine

Chemical Properties

CAS No. :	69123-98-4
Formula:	C ₉ H ₁₀ FIN ₂ O ₅
Molecular Weight:	372.09
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	Fialuridine (DRG-0098) is a DNA-directed DNA polymerase inhibitor potentially for the treatment of HBV infection with potent activity against hepatitis B virus in vitro and in vivo.
Targets(IC50)	Nucleoside Antimetabolite/Analog,HSV,DNA/RNA Synthesis,HBV,Virus Protease
In vitro	Fialuridine (FIAU) blocks DNA synthesis in human cytomegalovirus and hepatitis B, as well as herpes simplex[1]

Solubility Information

Solubility	DMSO: 250 mg/mL (671.88 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: 1 mg/mL (2.69 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	2.6875 mL	13.4376 mL	26.8752 mL
5 mM	0.5375 mL	2.6875 mL	5.375 mL
10 mM	0.2688 mL	1.3438 mL	2.6875 mL
50 mM	0.0538 mL	0.2688 mL	0.5375 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

Colacino J M , Lopez C . Efficacy and selectivity of some nucleoside analogs as anti-human cytomegalovirus agents.[J]. Antimicrobial Agents and Chemotherapy, 1983, 24(4):505-508.

Colacino J M , Malcolm S K , Jaskunas S R . Effect of fialuridine on replication of mitochondrial DNA in CEM cells and in human hepatoblastoma cells in culture.[J]. Antimicrobial Agents and Chemotherapy, 1994, 38(9):1997-2002.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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