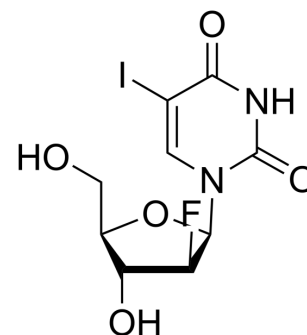


## Fialuridine

<b>Cat. No.:</b>	HY-118122		
<b>CAS No.:</b>	69123-98-4		
<b>Molecular Formula:</b>	C <sub>9</sub> H <sub>10</sub> FIN <sub>2</sub> O <sub>5</sub>		
<b>Molecular Weight:</b>	372.09		
<b>Target:</b>	DNA/RNA Synthesis; Orthopoxvirus		
<b>Pathway:</b>	Cell Cycle/DNA Damage; Anti-infection		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 100 mg/mL (268.75 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.6875 mL	13.4376 mL	26.8752 mL
	5 mM	0.5375 mL	2.6875 mL	5.3750 mL
	10 mM	0.2688 mL	1.3438 mL	2.6875 mL

Please refer to the solubility information to select the appropriate solvent.

#### In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline  
Solubility: ≥ 2.5 mg/mL (6.72 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: ≥ 2.5 mg/mL (6.72 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 2.5 mg/mL (6.72 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

Fialuridine is a nucleoside analog with antiviral activity<sup>[1]</sup>. Fialuridine shows anti-orthopoxvirus activity.

### REFERENCES

- [1]. Mansuri MM, et al. 1-(2-Deoxy-2-fluoro-beta-D-arabinofuranosyl)-5-ethyluracil. A highly selective antiherpes simplex agent. J Med Chem. 1987 May;30(5):867-71.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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