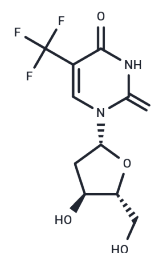


Trifluridine

Chemical Properties

CAS No. :	70-00-8
Formula:	C ₁₀ H ₁₁ F ₃ N ₂ O ₅
Molecular Weight:	296.2
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Trifluridine (NSC-75520) is a fluorinated thymidine analog with potential antineoplastic activity. Trifluridine is incorporated into DNA and inhibits thymidylate synthase, resulting in inhibition of DNA synthesis, inhibition of protein synthesis, and apoptosis. This agent also exhibits antiviral activity.
Targets(IC50)	Nucleoside Antimetabolite/Analog,DNA/RNA Synthesis,HSV

Solubility Information

Solubility	H ₂ O: 14.8 mg/mL (50 mM), DMSO: 29.6 mg/mL (100 mM), (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.3761 mL	16.8805 mL	33.761 mL
5 mM	0.6752 mL	3.3761 mL	6.7522 mL
10 mM	0.3376 mL	1.688 mL	3.3761 mL
50 mM	0.0675 mL	0.3376 mL	0.6752 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.

Reference

Yamashita F, et al. Cancer Chemother Pharmacol,2015 Jun 18.

Dsouza L, Pant A, Offei S, et al.Antiviral activities of two nucleos (t) ide analogs against vaccinia, mpox, and

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