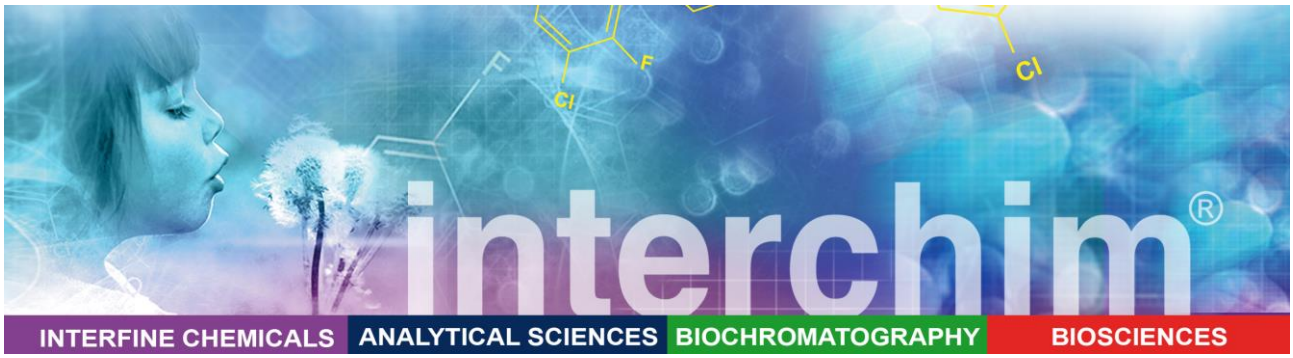
FT-E73384



Trifluridine

Product Description

Catalog #: E73384, 100mg E73385, 500mg
AX7MN0, 1ml 10mM in DMSO.

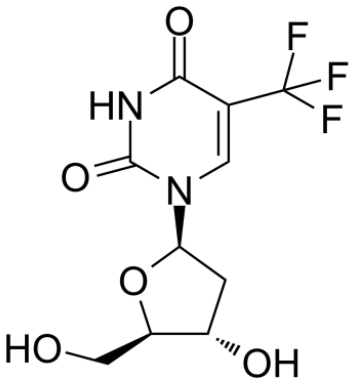
Name: **Trifluridine**
Syn: Trifluorothymidine; 5-Trifluorothymidine; TFT
CAS : 70-00-8

MW : 296.20

Formula : $C_{10}H_{11}F_3N_5O_5$

Properties : Soluble : in DMSO : ≥ 100 mg/mL (337.61 mM)
Purity: 99.96%

Storage: Powder: -20°C (long term; possible at +4°C (2 years)
(M)
In solvent: -80°C (6 months) -20°C (1 month)



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Introduction

Trifluridine (Trifluorothymidine; 5-Trifluorothymidine; TFT) is an irreversible thymidylate synthase inhibitor, and thereby suppresses DNA synthesis. Trifluridine is an antiviral drug for herpes simplex virus (HSV) infection.
IC50 & Targets : DNA Synthesis (thymidylate synthase)

In Vitro

Solubility : DMSO : >100 mg/mL (337.61 mM)
Preparation : 1mM = 1mg in 3.3761 mL

In Vivo

Preparation :
1. Add each solvent one by one: 10% DMSO 40% PEG300 5% Tween-80 45% saline
   Solubility: ≥ 2.5 mg/mL (8.44 mM); Clear solution
2. Add each solvent one by one: 10% DMSO 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (8.44 mM); Clear solution
3. Add each solvent one by one: 10% DMSO 90% corn oil
   Solubility: ≥ 2.5 mg/mL (8.44 mM); Clear solution

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References

[1]. Suzuki N, et al. Mode of action of trifluorothymidine (TFT) against DNA replication and repair enzymes. Int J Oncol. 2011 Jul;39(1):263-70.

[2]. Suzuki N, et al. Trifluorothymidine exhibits potent antitumor activity via the induction of DNA double-strand breaks. Exp Ther Med. 2011 May;2(3):393-397.

[3]. Temmink OH, et al. Irinotecan-induced cytotoxicity to colon cancer cells in vitro is stimulated by pre-incubation withtrifluorothymidine. Eur J Cancer. 2007 Jan;43(1):175-83.

[4]. Okayama T, et al. Involvement of concentrative nucleoside transporter 1 in intestinal absorption of trifluorothymidine, a novel antitumor nucleoside, in rats. J Pharmacol Exp Ther. 2012 Feb;340(2):457-62.More references:J Mol Med (Berl). 2019 Aug;97(8):1183-1193.

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