Web: www.taiclone.com
Tel: +886-2-2735-9682
Email: order@taiclone.com

Trifluridine

Catalog No: tcsc1602

Available Sizes

Size: 50mg

Size: 100mg

Size: 200mg

Specifications

CAS No:
70-00-8

Formula:
$C_{10}H_{11}F_3N_2O_5$

Pathway:
Anti-infection; Apoptosis; Cell Cycle/DNA Damage

Target:
HSV; Nucleoside Antimetabolite/Analog; Thymidylate Synthase

Form:
White to off-white (Solid)

Purity / Grade:
99.85%

Solubility:
DMSO : ≥ 100 mg/mL (337.61 mM)

Storage Instruction:
Storage temp. 2-8°C

Alternative Names:
Trifluorothymidine; 5-Trifluorothymidine; TFT

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Observed Molecular Weight:
296.2

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. [5]. Novel trifluridine crystal form and preparation method thereof.

Product Description

Trifluridine is an irreversible **thymidylate synthase** inhibitor, and thereby suppresses **DNA synthesis**. Trifluridine is an antiviral drug for **herpes simplex virus (HSV)** infection.

Biological Activity: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.