BioVision

07/16

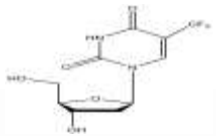
PRODUCT: Trifluorothymidine

ALTERNATE NAME: 2'-Deoxy-5-trifluoromethyluridine; Triflurdine; TFT

CATALOG #: B1126-10, 50

AMOUNT: 10 mg, 50 mg

STRUCTURE:



MOLECULAR FORMULA: $C_{10}H_{11}F_3N_2O_5$

MOLECULAR WEIGHT: 296.20

CAS NUMBER: 70-00-8

APPEARANCE: White solid

SOLUBILITY: DMSO (>25 mg/ml) of H_2O (>10mg/ml)

PURITY: ≥98% by HPLC

STORAGE: Store at -20℃. Protect from air and moisture

DESCRIPTION: Trifluorothymidine is an inhibitor of TS (thymidylate synthase). It is also a substrate used to study the specificity and kinetics of thymidine kinases. Acts as an anti-herpesvirus drug by blocking viral DNA replication. Decreases CRISPR-mediated HDR (homology-directed repair) efficiency.

REFERENCES:

Yu, C., *et al.* **(**2015). *Cell Stem Cell* **16,** 142-147.

HANDLING: Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

RELATED PRODUCTS:

Azidothymidine **(B1113)**
Compound 401 **(1657)**
(Z)-4-Hydroxytamoxifen **(B1114)**
KU-0060648 **(B1115)**
L-755,507 **(B1116)**
NU-7441 **(B1117)**
RS-1 **(B1118)**
SCR7 pyrazine **(B1119)**
Trifluorothymidine **(B1126)**

USAGE: ***FOR RESEARCH CH USE ONLY! Not to be used in humans***

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