



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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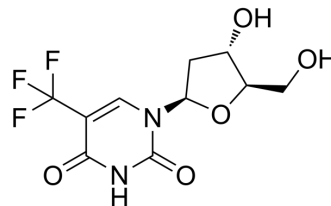
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## Trifluridine (Standard)

Cat. No.:	HY-A0061R
CAS No.:	70-00-8
Molecular Formula:	C <sub>10</sub> H <sub>11</sub> F <sub>3</sub> N <sub>2</sub> O <sub>5</sub>
Molecular Weight:	296.2
Target:	Thymidylate Synthase; HSV; Nucleoside Antimetabolite/Analog; Orthopoxvirus; DNA/RNA Synthesis; Apoptosis; Autophagy
Pathway:	Apoptosis; Anti-infection; Cell Cycle/DNA Damage; Autophagy
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

#### Description

Trifluridine (Standard) is the analytical standard of Trifluridine. This product is intended for research and analytical applications. Trifluridine (Trifluorothymidine) is an irreversible and orally active thymidylate synthase inhibitor, and thereby suppressing DNA synthesis. Trifluridine is an antiviral molecule used for research of HSV, rhabdovirus and orthopoxvirus infection. Trifluridine induces cell apoptosis and autophagy. Trifluridine is also an anticancer agent used in studies of metastatic colorectal cancer, gastrointestinal tumors<sup>[1][2][3][4]</sup>.

### REFERENCES

- [1]. 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.
- [2]. Jia HJ, et al. Trifluridine induces HUVECs senescence by inhibiting mTOR-dependent autophagy. *Biochem Biophys Res Commun.* 2022 Jun 25;610:119-126.
- [3]. Suzuki N, et al. Trifluridine/tipiracil increases survival rates in peritoneal dissemination mouse models of human colorectal and gastric cancer. *Oncol Lett.* 2017 Jul;14(1):639-646.
- [4]. Li J, et al. Trifluridine selectively inhibits cell growth and induces cell apoptosis of triple-negative breast cancer. *Am J Cancer Res.* 2020 Feb 1;10(2):507-522.

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

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