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Zuschläge

- Mindermengenzuschlag
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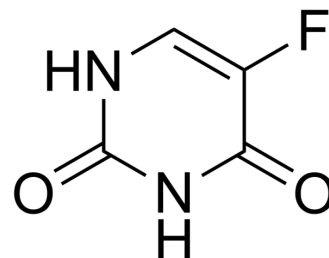
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5-Fluorouracil (Standard)

Cat. No.:	HY-90006R
CAS No.:	51-21-8
Molecular Formula:	C ₄ H ₃ FN ₂ O ₂
Molecular Weight:	130.08
Target:	HIV; Nucleoside Antimetabolite/Analog; Apoptosis; Endogenous Metabolite
Pathway:	Anti-infection; Cell Cycle/DNA Damage; Apoptosis; Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

5-Fluorouracil (Standard) is the analytical standard of 5-Fluorouracil. This product is intended for research and analytical applications. 5-Fluorouracil (5-FU) is an analogue of uracil and a potent antitumor agent. 5-Fluorouracil affects pyrimidine synthesis by inhibiting thymidylate synthetase thus depleting intracellular dTTP pools. 5-Fluorouracil induces apoptosis and can be used as a chemical sensitizer^{[1][2]}. 5-Fluorouracil also inhibits HIV^[3].

REFERENCES

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- [2]. McQuade RM, et al. Gastrointestinal dysfunction and enteric neurotoxicity following treatment with anticancer chemotherapeutic agent 5-fluorouracil. *Neurogastroenterol Motil*. 2016 Jun 28.
- [3]. Zeng Q, et al. Knockdown of NFBD1/MDC1 enhances chemosensitivity to NSC 119875 or 5-fluorouracil in nasopharyngeal carcinoma CNE1 cells. *Mol Cell Biochem*. 2016 Jul;418(1-2):137-46.
- [4]. Yin L, et al. Antitumor effects of oncolytic herpes simplex virus type 2 against colorectal cancer in vitro and in vivo. *Ther Clin Risk Manag*. 2017 Feb 7;13:117-130.
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- [6]. Snyder SM, et al. Initial Experience with Topical Fluorouracil for Treatment of HIV-Associated Anal Intraepithelial Neoplasia. *J Int Assoc Physicians AIDS Care (Chic)*. 2011;10(2):83-88.
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Caution: Product has not been fully validated for medical applications. For research use only.

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