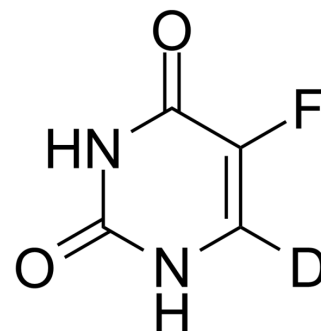


5-Fluorouracil-d1

Cat. No.:	HY-90006S
CAS No.:	90344-84-6
Molecular Formula:	C ₄ H ₂ DFN ₂ O ₂
Molecular Weight:	131.08
Target:	Nucleoside Antimetabolite/Analog; HIV; Apoptosis; Endogenous Metabolite
Pathway:	Cell Cycle/DNA Damage; Anti-infection; Apoptosis; Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	5-Fluorouracil-d1 (5-FU-d1) is the deuterium labeled 5-Fluorouracil. 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] .
In Vitro	Stable heavy isotopes of hydrogen, carbon, and other elements have been incorporated into drug molecules, largely as tracers for quantitation during the drug development process. Deuteration has gained attention because of its potential to affect the pharmacokinetic and metabolic profiles of drugs ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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

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