Inhibitors

5-Fluorouracil-13C4,15N2

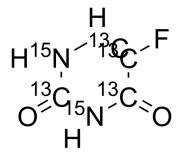
Cat. No.: HY-90006S3 CAS No.: 202407-03-2 Molecular Formula: ¹³C₄H₃F¹⁵N₂O₂

Molecular Weight: 136.03

Target: Apoptosis; Nucleoside Antimetabolite/Analog; HIV; Endogenous Metabolite Pathway: Apoptosis; Cell Cycle/DNA Damage; Anti-infection; Metabolic Enzyme/Protease

Please store the product under the recommended conditions in the Certificate of Storage:

Analysis.



Product Data Sheet

BIOLOGICAL ACTIVITY

Description	5-Fluorouracil- ¹³ C ₄ , ¹⁵ N ₂ is the ¹³ C and ¹⁵ N labeled 5-Fluorouracil[1]. 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[2][3]. 5-Fluorouracil also inhibits HIV[4].
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.

REFERENCES

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 $\label{lem:caution:Product} \textbf{Caution: Product has not been fully validated for medical applications. For research use only.}$

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