Thymine-15N2

Cat. No.:	HY-W010450S2	
Molecular Formula:	C ₅ H ₆ ¹⁵ N ₂ O ₂	15.
Molecular Weight:	128.1	
Target:	Endogenous Metabolite	
Pathway:	Metabolic Enzyme/Protease	0//
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.	0

Inhibitors

BIOLOGICAL ACTIVITY Description Thymine-¹⁵N₂ is the ¹⁵N labeled Thymine[1]. Thymine is one of the four nucleobases in the nucleic acid of DNA and can be a target for actions of 5-fluorouracil (5-FU) in cancer treatment, with a Km of 2.3 μM[2]. 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

[1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. Ann Pharmacother. 2019 Feb;53(2):211-216.

[2]. Tuchman M, et al. Effects of uridine and thymidine on the degradation of 5-fluorouracil, uracil, and thymine by rat liver dihydropyrimidine dehydrogenase. Cancer Res. 1985 Nov;45(11 Pt 1):5553-6.

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

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Product Data Sheet