# 5,6-Dihydro-5-methyluracil-d6

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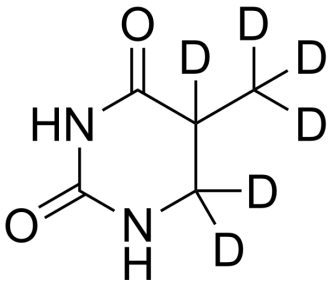
| **Cat. No.:** | HY-N6787S |
| **CAS No.:** | 334473-42-6 |
| **Molecular Formula:** | $C_5H_2D_6N_2O_2$ |
| **Molecular Weight:** | 134.17 |
| **Target:** | Endogenous Metabolite |
| **Pathway:** | Metabolic Enzyme/Protease |
| **Storage:** | Please store the product under the recommended conditions in the Certificate of Analysis. |




## BIOLOGICAL ACTIVITY

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| **Description** | 5,6-Dihydro-5-methyluracil-$d_6$ is the deuterium labeled 5,6-Dihydro-5-methyluracil. 5,6-Dihydro-5-methyluracil (Dihydrothymine), an intermediate breakdown product of thymine, comes from animal or plants. 5,6-Dihydro-5-methyluracil (Dihydrothymine) can be toxic when present at abnormally high levels[1]. |
| **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[2].<br>MCE has not independently confirmed the accuracy of these methods. They are for reference only. |

## REFERENCES

[1]. Yamane T, et al. Dihydrothymine from UV-irradiated DNA. Proc Natl Acad Sci U S A. 1967 Aug;58(2):439-42.

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



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