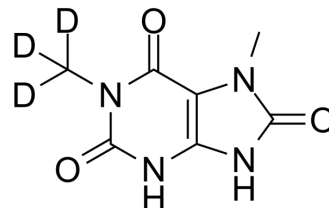


1,7-Dimethyluric acid-d3

Cat. No.:	HY-126061S
CAS No.:	1189713-08-3
Molecular Formula:	C ₇ H ₅ D ₃ N ₄ O ₃
Molecular Weight:	199.18
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	1,7-Dimethyluric acid-d3 is the deuterium labeled 1,7-Dimethyluric acid. 1,7-Dimethyluric acid is the metabolite of caffeine [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 ^[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;53(2):211-216.
- [2]. Gracia-Lor E, et al. Estimation of caffeine intake from analysis of caffeine metabolites in wastewater. *Sci Total Environ*. 2017;609:1582-1588.

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

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