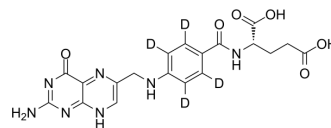


Folic acid-d4

Cat. No.:	HY-16637S1
CAS No.:	171777-72-3
Molecular Formula:	C ₁₉ H ₁₅ D ₄ N ₇ O ₆
Molecular Weight:	445.42
Target:	DNA/RNA Synthesis; Endogenous Metabolite; Isotope-Labeled Compounds
Pathway:	Cell Cycle/DNA Damage; Metabolic Enzyme/Protease; Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Folic acid-d ₄ is the deuterium labeled Folic acid. Folic acid (Vitamin M; Vitamin B9) is a B vitamin; is necessary for the production and maintenance of new cells, for DNA synthesis and RNA synthesis.
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.

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

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