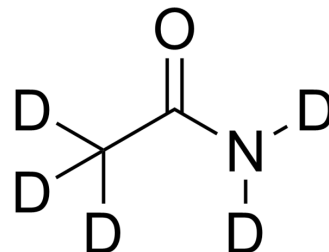


Acetamide-d₅

Cat. No.:	HY-Y0946S2
CAS No.:	33675-83-1
Molecular Formula:	C ₂ D ₅ NO
Molecular Weight:	64.1
Target:	Isotope-Labeled Compounds
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Acetamide-d ₅ is the deuterium labeled Acetamide[1]. Acetamide is used as an intermediate in the synthesis of methylamine, thioacetamide, and insecticides, and as a plasticizer in leather, cloth and coatings. Acetamide has carcinogenicity[2][3].
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]. Acetamide. IARC Monogr Eval Carcinog Risks Hum. 1999;71 Pt 3:1211-21.
- [3]. Moore MM, et, al. The food contaminant acetamide is not an in vivo clastogen, aneugen, or mutagen in rodent hematopoietic tissue. *Regul Toxicol Pharmacol*. 2019 Nov;108:104451.

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

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