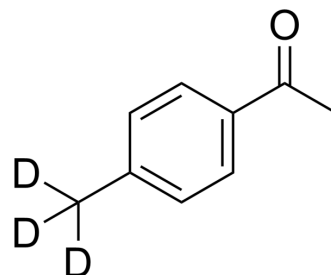


4'-Methylacetophenone-d₃

Cat. No.:	HY-W012653S1
CAS No.:	114379-92-9
Molecular Formula:	C ₉ H ₇ D ₃ O
Molecular Weight:	137.19
Target:	Isotope-Labeled Compounds
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	4'-Methylacetophenone-d ₃ is the deuterium labeled 4'-Methylacetophenone[1]. 4'-methylacetophenone can be used as a fragrance material. 4'-Methylacetophenone is widely occurs in volatile compounds in food and in some natural complex substances (NCS)[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]. Api AM, et al. RIFM fragrance ingredient safety assessment, 4'-methylacetophenone, CAS Registry Number 122-00-9. *Food Chem Toxicol*. 2018 Dec;122 Suppl 1:S75-S83.

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

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