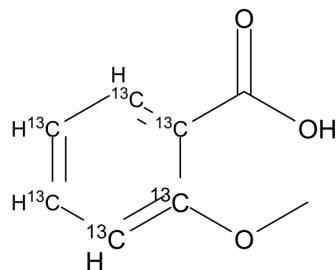


2-Methoxybenzoic acid-¹³C₆

Cat. No.:	HY-N1393S
Molecular Formula:	C ₂ ¹³ C ₆ H ₈ O ₃
Molecular Weight:	158.1
Target:	Endogenous Metabolite; Isotope-Labeled Compounds
Pathway:	Metabolic Enzyme/Protease; Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	2-Methoxybenzoic acid- ¹³ C ₆ is the ¹³ C-labeled 2-Methoxybenzoic acid. 2-Methoxybenzoic acid (NSC 3778) is used as an internal standard of salicylic acid and its putative biosynthetic precursors in cucumber leaves. Another known use is in the synthesis of Benextramine.
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]. Meuwly P, et al. Ortho-anisic acid as internal standard for the simultaneous quantitation of salicylic acid and its putative biosynthetic precursors in cucumber leaves. *Anal Biochem.* 1993 Nov 1;214(2):500-5.

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

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