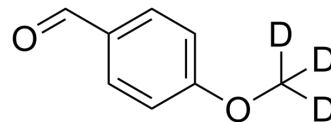


4-Methoxybenzaldehyde-d₃

Cat. No.:	HY-Y0740S1
CAS No.:	342611-04-5
Molecular Formula:	C ₈ H ₅ D ₃ O ₂
Molecular Weight:	139.17
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	4-Methoxybenzaldehyde-d ₃ is the deuterium labeled 4-Methoxybenzaldehyde[1]. 4-Methoxybenzaldehyde is a naturally occurring fragrant phenolic compound. 4-Methoxybenzaldehyde has been found in many plant species including horseradish, anise, star anise. 4-Methoxybenzaldehyde is a possible neurotoxicant and it has shown effects that include mortality, attractancy, and interference with host seeking[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]. Showler AT, et al. Effects of the Botanical Compound p-Anisaldehyde on Horn Fly (Diptera: Muscidae) Repellency, Mortality, and Reproduction. *J Med Entomol*. 2018 Jan 10;55(1):183-192.

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

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