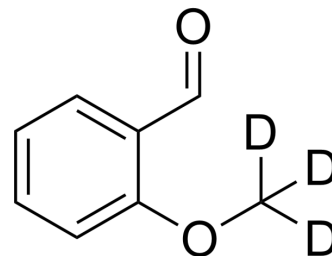


## 2-Methoxybenzaldehyde-d<sub>3</sub>

Cat. No.:	HY-77995S
CAS No.:	56248-49-8
Molecular Formula:	C <sub>8</sub> H <sub>5</sub> D <sub>3</sub> O <sub>2</sub>
Molecular Weight:	139.17
Target:	Fungal; Bacterial
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	2-Methoxybenzaldehyde-d <sub>3</sub> is the deuterium labeled 2-Methoxybenzaldehyde[1]. 2-Methoxybenzaldehyde (o-Anisaldehyde), isolated from cinnamon essential oil (CEO), exists antibacterial and antifungal activity[2].
<b>In Vitro</b>	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 <sup>[1]</sup> . 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]. Zhaoxiang Huang, et al. Synergistic effects of cinnamaldehyde and cinnamic acid in cinnamon essential oil against *S. pullorum*. *Industrial Crops and Products*, 2021-02-03.
- [3]. Sheikh Shreaz, et al. Interesting anticandidal effects of anisic aldehydes on growth and proton-pumping-ATPase-targeted activity. *Microb Pathog*. 2011 Oct51(4):277-84.

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

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