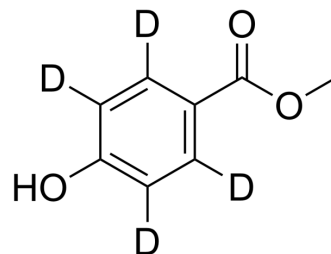


## Methyl paraben-d<sub>4</sub>

<b>Cat. No.:</b>	HY-N0349S
<b>CAS No.:</b>	362049-51-2
<b>Molecular Formula:</b>	C <sub>8</sub> H <sub>4</sub> D <sub>4</sub> O <sub>3</sub>
<b>Molecular Weight:</b>	156.17
<b>Target:</b>	Bacterial; Endogenous Metabolite
<b>Pathway:</b>	Anti-infection; Metabolic Enzyme/Protease
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Methyl paraben-d <sub>4</sub> is the deuterium labeled Methyl Paraben[1]. Methyl Paraben, isolated from the barks of <i>Tsuga dumosa</i> the methyl ester of p-hydroxybenzoic acid, is a standardized chemical allergen. Methyl Paraben is a stable, non-volatile compound used as an antimicrobial preservative in foods, agents and cosmetics. The physiologic effect of Methyl Paraben is by means of increased histamine release, and cell-mediated immunity[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]. Soni MG, et al. Evaluation of the health aspects of methyl paraben: a review of the published literature. *Food Chem Toxicol*. 2002 Oct;40(10):1335-73.

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

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