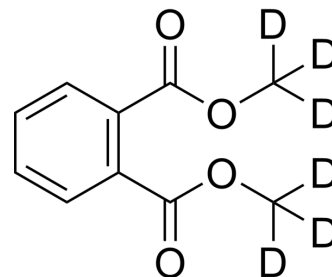


## Dimethyl phthalate-d6

Cat. No.:	HY-N7106S1
CAS No.:	85448-30-2
Molecular Formula:	C <sub>10</sub> H <sub>4</sub> D <sub>6</sub> O <sub>4</sub>
Molecular Weight:	200.22
Target:	Isotope-Labeled Compounds
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Dimethyl phthalate-d6 is the deuterium labeled Dimethyl phthalate. Dimethyl phthalate, a known endocrine disruptor and one of the phthalate esters (PAEs), is a ubiquitous pollutant. Dimethyl phthalate is commonly used as a plasticizer to impart flexibility to rigid polyvinylchloride (PVC) resins <sup>[1]</sup> .
<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;53(2):211-216.
- [2]. Wang ZG, et al. Impacts of dimethyl phthalate on the bacterial community and functions in black soils. *Front Microbiol*. 2015 May 5;6:405.

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

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