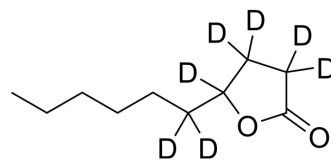


## Gamma-decalactone-d<sub>7</sub>

Cat. No.:	HY-N7105S
CAS No.:	1104979-33-0
Molecular Formula:	C <sub>10</sub> H <sub>11</sub> D <sub>7</sub> O <sub>2</sub>
Molecular Weight:	177.29
Target:	Biochemical Assay Reagents; Isotope-Labeled Compounds
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Gamma-decalactone-d <sub>7</sub> is deuterated labeled Nonanal (HY-N8016). Nonanal is a saturated fatty aldehyde with antidiarrhoeal activity <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]. Guan S, et al. Enhanced Biotransformation Productivity of Gamma-Decalactone from Ricinoleic Acid Based on the Expanded Vermiculite Delivery System. *J Microbiol Biotechnol.* 2019 Jul 28;29(7):1071-1077.
- [2]. Pereira de Andrade D, et al. Production of  $\gamma$ -Decalactone by Yeast Strains under Different Conditions. *Food Technol Biotechnol.* 2017 Jun;55(2):225-230.
- [3]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother.* 2019 Feb;53(2):211-216.

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

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