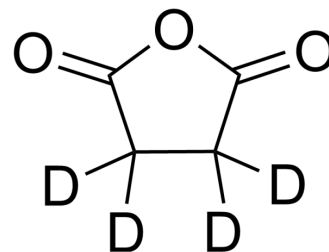


## Succinic anhydride-d<sub>4</sub>

Cat. No.:	HY-79369S
CAS No.:	14341-86-7
Molecular Formula:	C <sub>4</sub> D <sub>4</sub> O <sub>3</sub>
Molecular Weight:	104.1
Target:	ADC Linker; Isotope-Labeled Compounds
Pathway:	Antibody-drug Conjugate/ADC Related; Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Succinic anhydride-d <sub>4</sub> is the deuterium labeled Succinic anhydride. Succinic anhydride is a cyclic anhydride and a noncleavable ADC linker extracted from patent WO2009064913A1. Succinic anhydride can react with compound 4 of the patent to link the proagent to an amine or hydroxy 1 group of a targeting polypeptide[1].
<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]. Dale Boger, et al. Chimer containing a targeting portion linked to a scission-activated duocarmycin-type prodrug. WO2009064913A1.

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

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