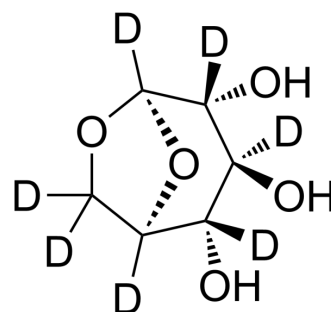


Levoglucosan-d₇

Cat. No.:	HY-W050145S
CAS No.:	2483832-05-7
Molecular Formula:	C ₆ H ₃ D ₇ O ₅
Molecular Weight:	169.18
Target:	Endogenous Metabolite; Isotope-Labeled Compounds
Pathway:	Metabolic Enzyme/Protease; Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Levoglucosan-d ₇ is the deuterium labeled Levoglucosan. Levoglucosan (1,6-Anhydro-β-D-glucopyranose) is an anhydrosugar produced through glucan pyrolysis and is widely found in nature ^{[1][2]} .
In Vitro	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 ^[1] . 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]. Kuritani Y, et al. Conversion of levoglucosan into glucose by the coordination of four enzymes through oxidation, elimination, hydration, and reduction. *Sci Rep*. 2020;10(1):20066. Published 2020 Nov 18.

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

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