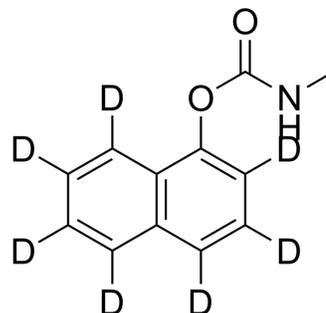


Carbaryl-d7

Cat. No.:	HY-B1315S1
CAS No.:	362049-56-7
Molecular Formula:	C ₁₂ H ₄ D ₇ NO ₂
Molecular Weight:	208.26
Target:	Parasite
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Carbaryl-d ₇ is the deuterium labeled Carbaryl[1]. Carbaryl is used chiefly as an insecticide[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]. Nancy E Todd, et al. Effects of Sevin (Carbaryl Insecticide) on Early Life Stages of Zebrafish (Danio Rerio). *Ecotoxicol Environ Saf*. 2002 Oct;53(2):267-72.

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

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