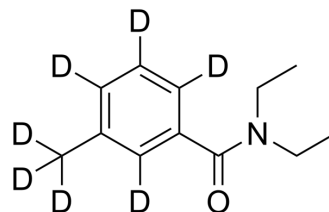


Diethyltoluamide-d7

Cat. No.:	HY-B0978S1
CAS No.:	1219799-37-7
Molecular Formula:	C ₁₂ H ₁₀ D ₇ NO
Molecular Weight:	198.31
Target:	Parasite
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Diethyltoluamide-d ₇ is the deuterium labeled Diethyltoluamide[1]. Diethyltoluamide is the most common active ingredient in insect repellents. It is intended to provide protection against mosquitoes, ticks, fleas, chiggers, leeches, and many other biting insects[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]. Lu W, et al. DEET as a feeding deterrent. *PLoS One*. 2017 Dec 14;12(12):e0189243.

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

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