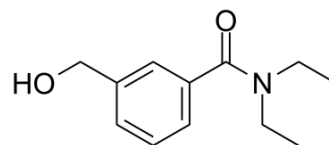


ω-Hydroxy-DEET

Cat. No.:	HY-136611
CAS No.:	72236-22-7
Molecular Formula:	C ₁₂ H ₁₇ NO ₂
Molecular Weight:	207.27
Target:	Drug Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	ω-Hydroxy-DEET is a major metabolite of insect repellent N-N-diethyl-meta-toluamide (DEET). ω-Hydroxy-DEET has anti-proliferative effects. DEET is a spatial repellent and an irritant that commonly used to prevent contact with mosquitoes ^{[1][2]} ^[3] .
In Vitro	Hepatoma cell studies reveals that ω-Hydroxy-DEET (DHMB; 0.1-10 μg/mL; 48-72 hours) treatments decreases cellular proliferation ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	The metabolite ω-Hydroxy-DEET (DHMB) is extensively distributed following intravenous and topical skin administration of DEET in rats. The ω-Hydroxy-DEET appeared to be the major metabolite for DEET. Repeated once-daily topical application for 30 days lead to higher concentrations of ω-Hydroxy-DEET in the liver ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Daryl J Fediuk, et al. Metabolic disposition of the insect repellent DEET and the sunscreen oxybenzone following intravenous and skin administration in rats. *Int J Toxicol*. Sep-Oct 2012;31(5):467-76.
- [2]. Ryan C Lewis, et al. Urinary biomarkers of exposure to insecticides, herbicides, and one insect repellent among pregnant women in Puerto Rico. *Environ Health*. 2014 Nov 19;13:97.
- [3]. 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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