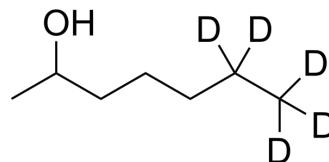


2-Heptanol-d₅

Cat. No.:	HY-W015879S
Molecular Formula:	C ₇ H ₁₁ D ₅ O
Molecular Weight:	121.23
Target:	Bacterial; Isotope-Labeled Compounds
Pathway:	Anti-infection; Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

2-Heptanol-d₅ is deuterated labeled Citronellol (HY-W010201). Citronellol ((±)-Citronellol) is a monoterpene Pelargonium graveolens. Citronellol ((±)-Citronellol) induces necroptosis of cancer cell via up-regulating TNF- α , RIP1/RIP3 activities, down-regulating caspase-3/caspase-8 activities and increasing ROS (reactive oxygen species) accumulation^[1].

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]. Sudipta Jena, et al. Deeper insight into the volatile profile of essential oil of two Curcuma species and their antioxidant and antimicrobial activities. Industrial Crops and Products. Volume 155, 1 November 2020, 112830.

[2]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. Ann Pharmacother. 2019 Feb;53(2):211-216.

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

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