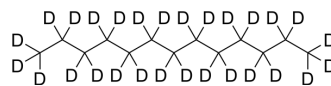


Tridecane-d₂₈

Cat. No.:	HY-W088037S
CAS No.:	121578-12-9
Molecular Formula:	C ₁₃ D ₂₈
Molecular Weight:	212.53
Target:	Isotope-Labeled Compounds
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Tridecane-d ₂₈ is the deuterium labeled Tridecane[1]. Tridecane is a short chain aliphatic hydrocarbon containing 13 carbon atoms. Tridecane is a volatile oil component isolated from essential oil of Piper aduncum L. Tridecane is a stress compound released by the brown marmorated stink bugs stress compound[2][3].
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]. Pallavi Mohekar, et al. Influence of Winemaking Processing Steps on the Amounts of (E)-2-Decenal and Tridecane as Off-Odorants Caused by Brown Marmorated Stink Bug (*Halyomorpha halys*). *J Agric Food Chem*. 2017 Feb 1;65(4):872-878.
- [3]. Motoi Yamashita, et al. The effect of pressure on the phase transition behavior of tridecane, pentadecane, and heptadecane: a Fourier transform infrared spectroscopy study. *J Chem Phys*. 2011 Apr 14;134(14):144503.

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

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