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Zuschläge

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Docosane-d₄₆

Cat. No.:	HY-N9929S
CAS No.:	260411-88-9
Molecular Formula:	C ₂₂ D ₄₆
Molecular Weight:	356.88
Target:	Isotope-Labeled Compounds
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Docosane-d ₄₆ is the deuterium labeled Docosane[1]. Docosane, a straight chain alkane, can be used to synthesize structural composites with thermal energy storage/release capability[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]. Asakawa Y, et, al. Volatile components of selected species of the liverwort genera *Frullania* and *Schusterella* (Frullaniaceae) from New Zealand, Australia and South America: a chemosystematic approach. *Phytochemistry*. 2003 Feb;62(3):439-52.
- [3]. Fredi G, et, al. Docosane-Organosilica Microcapsules for Structural Composites with Thermal Energy Storage/Release Capability. *Materials (Basel)*. 2019 Apr 19;12(8):1286.

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

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