

Octadecane-d38

Cat. No.:	HY-N6600S
CAS No.:	16416-31-2
Molecular Formula:	C ₁₈ D ₃₈
Molecular Weight:	292.73
Target:	Isotope-Labeled Compounds
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Octadecane-d ₃₈ is the deuterium labeled Octadecane[1]. Octadecane is an alkane that is used to store thermal energy at ambient temperature as a phase change material[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]. Hossein Tafrishi, et al. Investigating the effects of adding hybrid nanoparticles, graphene and boron nitride nanosheets, to octadecane on its thermal properties. (Paper) *RSC Adv.*, 2020, 10, 14785-14793.

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

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