

Methyl heptadecanoate-d₃₃

Cat. No.:	HY-W004290S		
CAS No.:	1219804-81-5		
Molecular Formula:	C ₁₈ H ₃ D ₃₃ O ₂		
Molecular Weight:	317.68		
Target:	Isotope-Labeled Compounds		
Pathway:	Others		
Storage:	Pure form	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



BIOLOGICAL ACTIVITY

Description	Methyl heptadecanoate-d ₃₃ is the deuterium labeled Methyl heptadecanoate. Methyl heptadecanoate is a fatty acid methyl ester[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]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother.* 2019;53(2):211-216.
- [2]. Evandro Pereira, et al. Development and validation of analytical methodology by GC-FID using hexadecyl propanoate as an internal standard to determine the bovine tallow methyl esters content. *J Chromatogr B Analyt Technol Biomed Life Sci.* 2018 Sep 1;1093-1094:134-140.

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

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