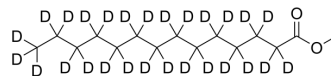


Methyl tetradecanoate-d₂₇

Cat. No.:	HY-W004288S		
CAS No.:	434349-93-6		
Molecular Formula:	C ₁₅ H ₃ D ₂₇ O ₂		
Molecular Weight:	269.56		
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 tetradecanoate-d ₂₇ is the deuterium labeled Methyl myristate. Methyl myristate is a saturated fatty acid methyl ester obtained from the esterification of myristic acid. Methyl myristate shows a high melanin induction in B16F10 melanoma[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]. Aranya Manosroi, et al. Melanogenesis of methyl myristate loaded niosomes in B16F10 melanoma cells. *J Biomed Nanotechnol.* 2013 Apr;9(4):626-38.

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

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