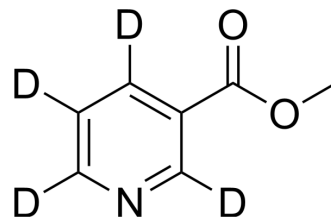


Methyl nicotinate-d₄

Cat. No.:	HY-B1695S		
CAS No.:	345909-99-1		
Molecular Formula:	C ₇ H ₃ D ₄ NO ₂		
Molecular Weight:	141.16		
Target:	Isotope-Labeled Compounds		
Pathway:	Others		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



BIOLOGICAL ACTIVITY

Description

Methyl nicotinate-d₄ is the deuterium labeled Methyl nicotinate[1]. Methyl nicotinate, the methyl ester of Niacin found in alcoholic beverages, that is used as an active ingredient as a rubefacient in over-the-counter topical preparations indicated for muscle and joint pain[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]. L. Johnston, et al. Muscle and joint pain: topical anti-inflammatories and analgesics: therapeutic. *Professional Nursing Today*, Volume 17, Issue 1, Jan 2013, p. 4-5.

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

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