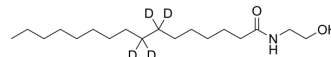


Palmitoylethanolamide-d₄

Cat. No.:	HY-20685S
CAS No.:	1159908-45-8
Molecular Formula:	C ₁₈ H ₃₃ D ₄ NO ₂
Molecular Weight:	303.52
Target:	Influenza Virus; Endogenous Metabolite
Pathway:	Anti-infection; Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Palmitoylethanolamide-d ₄ is the deuterium labeled Palmitoylethanolamide. Palmitoylethanolamide (Palmidrol) is an active endogenous compound which can be used for preventing virus infection of the respiratory tract.
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]. Lackovic V, et al. Effect of impulsin treatment of interferon production and antiviral resistance of mice. *Arch Immunol Ther Exp (Warsz).* 1977;25(5):655-61.

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

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