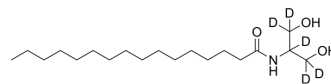


## Palmitoyl serinol-d<sub>5</sub>

Cat. No.:	HY-125407S
CAS No.:	946524-35-2
Molecular Formula:	C <sub>19</sub> H <sub>34</sub> D <sub>5</sub> NO <sub>3</sub>
Molecular Weight:	334.55
Target:	Cannabinoid Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Palmitoyl serinol-d <sub>5</sub> is the deuterium labeled Palmitoyl serinol[1]. Palmitoyl serinol (N-Palmitoyl serinol) is an analog of the endocannabinoid N-palmitoyl ethanolamine (PEA). Palmitoyl serinol improves the epidermal permeability barrier in both normal and inflamed skin[2][3].
<b>In Vitro</b>	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 <sup>[1]</sup> . 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]. Shin KO, et al. N-Palmitoyl Serinol Stimulates Ceramide Production through a CB1-Dependent Mechanism in In Vitro Model of Skin Inflammation. *Int J Mol Sci*. 2021;22(15):8302. Published 2021 Aug 2.

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

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