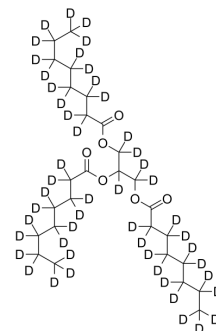


## Tricaprilin-d50

<b>Cat. No.:</b>	HY-B1804S1
<b>Molecular Formula:</b>	C <sub>27</sub> D <sub>50</sub> O <sub>6</sub>
<b>Molecular Weight:</b>	520.99
<b>Target:</b>	Endogenous Metabolite
<b>Pathway:</b>	Metabolic Enzyme/Protease
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Tricaprilin-d50 is the deuterium labeled Tricaprilin. Tricaprilin (Trioctanoin) is used in study for patients with mild to moderate Alzheimer's disease and has a role as an anticonvulsant and a plant metabolite <sup>[1][2]</sup> .
<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;53(2):211-216.
- [2]. Kwok MK, et al. Re-thinking Alzheimer's disease therapeutic targets using gene-based tests. *EBioMedicine*. 2018 Nov;37:461-470.
- [3]. Tricaprylin

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

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