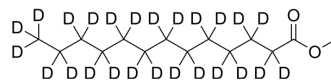


## Methyl tridecanoate-d<sub>25</sub>

<b>Cat. No.:</b>	HY-W004287S
<b>CAS No.:</b>	1219804-90-6
<b>Molecular Formula:</b>	C <sub>14</sub> H <sub>3</sub> D <sub>25</sub> O <sub>2</sub>
<b>Molecular Weight:</b>	253.52
<b>Target:</b>	Amyloid-β; Cholinesterase (ChE); Isotope-Labeled Compounds
<b>Pathway:</b>	Neuronal Signaling; Others
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Methyl tridecanoate-d <sub>25</sub> is the deuterium labeled Methyl tridecanoate. Methyl tridecanoate moderately inhibits β-amyloid aggregation. Methyl tridecanoate weakly inhibits acetylcholinesterase (AChE)[1].
<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]. Lomarat P, et al. Bioactivity-guided Separation of the Active Compounds in *Acacia pennata* Responsible for the Prevention of Alzheimer's Disease. *Nat Prod Commun*. 2015;10(8):1431-1434.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA