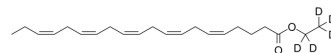


## Eicosapentaenoic acid ethyl ester-d5

Cat. No.:	HY-B0747S
CAS No.:	1392217-44-5
Molecular Formula:	C <sub>22</sub> H <sub>29</sub> D <sub>5</sub> O <sub>2</sub>
Molecular Weight:	335.53
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Eicosapentaenoic acid ethyl ester-d5 is the deuterium labeled Eicosapentaenoic acid ethyl ester. Eicosapentaenoic acid ethyl ester is an omega-3 fatty acid agent.
<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]. Jacobson TA. A new pure ω-3 eicosapentaenoic acid ethyl ester (AMR101) for the management of hypertriglyceridemia: the MARINE trial. *Expert Rev Cardiovasc Ther.* 2012 Jun;10(6):687-695.
- [3]. Bays HE, et al. Eicosapentaenoic acid ethyl ester (AMR101) therapy in patients with very high triglyceride levels (from the Multi-center, placebo-controlled, Randomized, double-blind, 12-week study with an open-label Extension [MARINE] trial). *Am J Cardiol.* 2011 Sep 1;108(5):682-690.

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

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