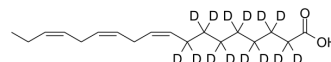


## $\alpha$ -Linolenic acid-d14

<b>Cat. No.:</b>	HY-N0728S2
<b>CAS No.:</b>	1622944-40-4
<b>Molecular Formula:</b>	C <sub>18</sub> H <sub>16</sub> D <sub>14</sub> O <sub>2</sub>
<b>Molecular Weight:</b>	292.52
<b>Target:</b>	PI3K; Akt
<b>Pathway:</b>	PI3K/Akt/mTOR
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	$\alpha$ -Linolenic acid-d14 is the deuterium labeled $\alpha$ -Linolenic acid. $\alpha$ -Linolenic acid, isolated from seed oils, is an essential fatty acid that cannot be synthesized by humans. $\alpha$ -Linolenic acid can affect the process of thrombotic through the modulation of PI3K/Akt signaling. $\alpha$ -Linolenic acid possess the anti-arrhythmic properties and is related to cardiovascular disease and cancer <sup>[1]</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]. Yang Q, et al. Anti-thrombotic effects of  $\alpha$ -linolenic acid isolated from *Zanthoxylum bungeanum* Maxim seeds. *BMC Complement Altern Med.* 2014 Sep 23;14:348.

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

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