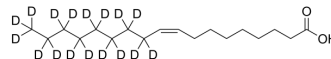


## Oleic acid-d<sub>17</sub>

Cat. No.:	HY-N1446S3
CAS No.:	223487-44-3
Molecular Formula:	C <sub>18</sub> H <sub>17</sub> D <sub>17</sub> O <sub>2</sub>
Molecular Weight:	299.57
Target:	Na <sup>+</sup> /K <sup>+</sup> ATPase; Endogenous Metabolite; Apoptosis; Isotope-Labeled Compounds
Pathway:	Membrane Transporter/Ion Channel; Metabolic Enzyme/Protease; Apoptosis; Others
Storage:	Solution, -20°C, 2 years



### BIOLOGICAL ACTIVITY

<b>Description</b>	Oleic acid-d <sub>17</sub> is the deuterium labeled Oleic acid. Oleic acid (9-cis-Octadecenoic acid) is an abundant monounsaturated fatty acid[1]. Oleic acid is a Na <sup>+</sup> /K <sup>+</sup> ATPase activator[2].
<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]. Li S, et al. High metastatic gastric and breast cancer cells consume oleic acid in an AMPK dependent manner. *PLoS One*. 2014 May 13;9(5):e97330.
- [3]. Jack-Hays MG, et al. Activation of Na<sup>+</sup>/K<sup>+</sup>-ATPase by fatty acids, acylglycerols, and related amphiphiles: structure-activity relationship. *Biochim Biophys Acta*. 1996 Feb 21;1279(1):43-8.

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

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