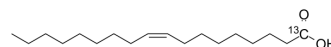


## Oleic acid-<sup>13</sup>C

Cat. No.:	HY-N1446S
CAS No.:	82005-44-5
Molecular Formula:	C <sub>17</sub> <sup>13</sup> CH <sub>34</sub> O <sub>2</sub>
Molecular Weight:	283.45
Target:	Apoptosis; Na <sup>+</sup> /K <sup>+</sup> ATPase; Endogenous Metabolite
Pathway:	Apoptosis; Membrane Transporter/Ion Channel; Metabolic Enzyme/Protease
Storage:	-80°C, protect from light, stored under nitrogen



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 100 mg/mL (352.80 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent		1 mg	5 mg	10 mg
	Concentration	Mass			
	1 mM		3.5280 mL	17.6398 mL	35.2796 mL
	5 mM		0.7056 mL	3.5280 mL	7.0559 mL
	10 mM		0.3528 mL	1.7640 mL	3.5280 mL

Please refer to the solubility information to select the appropriate solvent.

### BIOLOGICAL ACTIVITY

#### Description

Oleic acid-<sup>13</sup>C is the <sup>13</sup>C 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].

#### In Vitro

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.

---

**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](mailto:tech@MedChemExpress.com)

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