

---

**Product Data Sheet**

---

Product Name: Oleic acid-d2

Cat. No.: GC69620

**Chemical Properties**

Cas. No. 5711-29-5

Formula  $C_{18}H_{32}D_2O_2$  M.Wt 284.47

Solubility DMSO : 100 mg/mL (351.53 mM; ultrasonic and warming and heat to 60°C) Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure **Background**

Oleic acid-d<sub>2</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].

Stable heavy isotopes of drogen, 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>.

[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: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

---