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## Product Data Sheet

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Product Name: Triolein 13C3

Cat. No.: GC67947

### Chemical Properties

Cas. No. 82005-46-7

Formula  $C_{54}^{13}C_3H_{104}O_6$

M.Wt

888.41

Solubility

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

Triolein 13C3 is the 13C-labeled Triolein. Triolein is a symmetrical triacylglycerol, reduces **MMP-1** upregulation, with strong antioxidant and anti-inflammatory properties<sup>[1]</sup>.

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>.

[1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother.* 2019;53(2):211-216.

[2]. Leirós GJ, et al. Triolein reduces MMP-1 upregulation in dermal fibroblasts generated by ROS production in UVB-irradiated keratinocytes. *J Dermatol Sci.* 2017 Feb;85(2):124-130.

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

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