**Proteins** 

## Inhibitors



## Triolein-13C<sub>3</sub>

Cat. No.: HY-N1981S CAS No.: 82005-46-7 Molecular Formula:  $C_{54}^{13}C_{3}H_{104}O_{6}$ Molecular Weight: 888.41

Target: MMP; Endogenous Metabolite Pathway: Metabolic Enzyme/Protease

4°C, sealed storage, away from moisture and light Storage:

\* In solvent: -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture

and light)



**Product** Data Sheet

## **SOLVENT & SOLUBILITY**

In	V	i+	re	١
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DMSO: 50 mg/mL (56.28 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
	1 mM	1.1256 mL	5.6280 mL	11.2561 mL
	5 mM	0.2251 mL	1.1256 mL	2.2512 mL
	10 mM	0.1126 mL	0.5628 mL	1.1256 mL

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

In Vivo

- 1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 1.25 mg/mL (1.41 mM); Clear solution
- 2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 1.25 mg/mL (1.41 mM); Clear solution
- 3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 1.25 mg/mL (1.41 mM); Clear solution

## **BIOLOGICAL ACTIVITY**

Description	Triolein- $^{13}$ C <sub>3</sub> is the $^{13}$ C-labeled Triolein. Triolein is a symmetrical triacylglycerol, reduces MMP-1 upregulation, with strong antioxidant and anti-inflammatory properties[1].
In Vitro	Stable heavy isotopes of hydrogen, carbon, and other elements have been incorporated into drug molecules, largely as

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.

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

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