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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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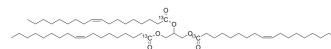
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Triolein-¹³C₃

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
Storage:	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 50 mg/mL (56.28 mM; Need ultrasonic)																			
Preparing Stock Solutions	<table border="1"> <thead> <tr> <th rowspan="2">Solvent Concentration</th> <th colspan="3">Mass</th> </tr> <tr> <th>1 mg</th> <th>5 mg</th> <th>10 mg</th> </tr> </thead> <tbody> <tr> <td>1 mM</td> <td>1.1256 mL</td> <td>5.6280 mL</td> <td>11.2561 mL</td> </tr> <tr> <td>5 mM</td> <td>0.2251 mL</td> <td>1.1256 mL</td> <td>2.2512 mL</td> </tr> <tr> <td>10 mM</td> <td>0.1126 mL</td> <td>0.5628 mL</td> <td>1.1256 mL</td> </tr> </tbody> </table>	Solvent Concentration	Mass			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
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Please refer to the solubility information to select the appropriate solvent.																				
In Vivo	<ol style="list-style-type: none"> 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 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 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 ₃ 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	<p>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^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

REFERENCES

[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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