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Zuschläge

- Mindermengenzuschlag
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- Expressversand

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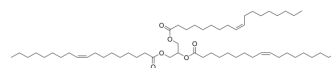
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Triolein

Cat. No.:	HY-N1981
CAS No.:	122-32-7
Molecular Formula:	C ₅₇ H ₁₀₄ O ₆
Molecular Weight:	885.43
Target:	MMP; Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	-20°C, protect from light, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light, stored under nitrogen)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (112.94 mM; Need ultrasonic)				
	Preparing Stock Solutions	Solvent Concentration Mass	1 mg	5 mg	10 mg
		1 mM	1.1294 mL	5.6470 mL	11.2939 mL
		5 mM	0.2259 mL	1.1294 mL	2.2588 mL
		10 mM	0.1129 mL	0.5647 mL	1.1294 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: ≥ 2.08 mg/mL (2.35 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (2.35 mM); Clear solution				
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil				
	Solubility: ≥ 2.08 mg/mL (2.35 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	Triolein is a symmetric triacylglycerol that reduces upregulation of MMP-1 and has strong antioxidant and anti-inflammatory activities ^{[1][2]} .
IC ₅₀ & Target	Human Endogenous Metabolite
In Vitro	Triolein (20 μM, 48 h) decreases the upregulation of MMP-1 in dermal fibroblasts produced by ROS ^[1] . Triolein (10 μM, 24 h) can improve the oxidative stress induced by oxidative low-density lipoprotein in endothelial cells ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

RT-PCR^[1]

Cell Line:	Tel Ø E6E7
Concentration:	20 µM
Incubation Time:	48 h
Result:	Reduced the IL-6 expression and ROS generation.

CUSTOMER VALIDATION

- Mol Med. 2024 Dec 6;30(1):242.

See more customer validations on www.MedChemExpress.com

REFERENCES

- [1]. Luo T, et al. Triolein and trilinolein ameliorate oxidized low-density lipoprotein-induced oxidative stress in endothelial cells. *Lipids*. 2014 May;49(5):495-504.
- [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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