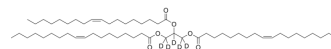


Triolein-d₅

Cat. No.:	HY-N1981S1		
CAS No.:	60892-83-3		
Molecular Formula:	C ₅₇ H ₉₉ D ₅ O ₆		
Molecular Weight:	890.46		
Target:	MMP; Endogenous Metabolite; Isotope-Labeled Compounds		
Pathway:	Metabolic Enzyme/Protease; Others		
Storage:	Pure form	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



BIOLOGICAL ACTIVITY

Description	Triolein-d ₅ is the deuterium 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 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] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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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