9-PAHSA

Cat. No.: HY-120657

CAS No.: 1481636-31-0

Molecular Formula: $C_{34}H_{66}O_4$

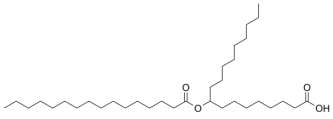
Molecular Weight: 538.89

Target: Endogenous Metabolite

Pathway: Metabolic Enzyme/Protease

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	6 months
	-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 5 mg/mL (9.28 mM; ultrasonic and warming and heat to 80°C)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	1.8557 mL	9.2783 mL	18.5567 mL
	5 mM	0.3711 mL	1.8557 mL	3.7113 mL
	10 mM	---	---	---

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: 0.5 mg/mL (0.93 mM); Clear solution; Need ultrasonic
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: 0.5 mg/mL (0.93 mM); Clear solution; Need ultrasonic
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: 0.5 mg/mL (0.93 mM); Clear solution; Need ultrasonic

BIOLOGICAL ACTIVITY

Description

9-PAHSA is an orally available anti-inflammatory lipid that lowers blood sugar and reduces inflammation. 9-PAHSA also improved carotid vascular calcification and attenuates cardiac hypertrophy and dysfunction in db/db mice. 9-PAHSA increases the viability of steatosis primary mouse hepatocytes (PMH). 9-PAHSA can be used in research on diabetes, inflammation, and cardiovascular disease[1][2].

REFERENCES

[1]. Wang YM, et al. 9-PAHSA Improves Cardiovascular Complications by Promoting Autophagic Flux and Reducing Myocardial Hypertrophy in Db/Db Mice. Front Pharmacol. 2021 Nov 15;12:754387.

[2]. Schultz Moreira AR, et al. 9-PAHSA Prevents Mitochondrial Dysfunction and Increases the Viability of Steatotic Hepatocytes. Int J Mol Sci. 2020 Nov 5;21(21):8279.

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