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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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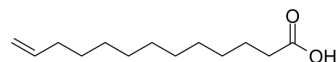
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12-Tridecenoic acid

Cat. No.:	HY-W588256
CAS No.:	6006-06-0
Molecular Formula:	C ₁₃ H ₂₄ O ₂
Molecular Weight:	212.33
Target:	Endogenous Metabolite; Acetyl-CoA Carboxylase
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 : 100 mg/mL (470.97 mM; Need ultrasonic)				
	Preparing Stock Solutions	Solvent Concentration Mass	1 mg	5 mg	10 mg
		1 mM	4.7097 mL	23.5483 mL	47.0965 mL
		5 mM	0.9419 mL	4.7097 mL	9.4193 mL
		10 mM	0.4710 mL	2.3548 mL	4.7097 mL
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (11.77 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (11.77 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	12-Tridecenoic acid is a metabolite of intestinal flora, which can promote the expression of acetyl-CoA carboxylase α (ACC) and inhibit the expression of carnitine palmitoyltransferase 1A (CPT1A), thereby aggravating hepatic steatosis. 12-Tridecenoic acid aggravates hepatic steatosis by affecting the ACC-CPT1A axis ^[1] .
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REFERENCES

[1]. Xu R, et al. Gan-jiang-ling-zhu decoction improves steatohepatitis by regulating gut microbiota-mediated 12-tridecenoic acid inhibition. Front Pharmacol. 2024 Aug 23;15:1444561.

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

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