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Lieferung & Zahlungsart

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Zuschläge

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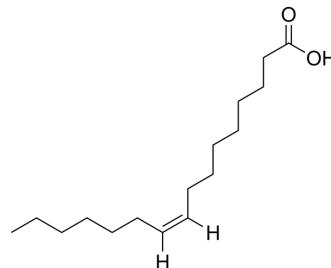
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Palmitoleic acid

Cat. No.:	HY-W011873	
CAS No.:	373-49-9	
Molecular Formula:	C ₁₆ H ₃₀ O ₂	
Molecular Weight:	254.41	
Target:	Endogenous Metabolite	
Pathway:	Metabolic Enzyme/Protease	
Storage:	Pure form	-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 (393.07 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	3.9307 mL	19.6533 mL	39.3066 mL
		5 mM	0.7861 mL	3.9307 mL	7.8613 mL
10 mM		0.3931 mL	1.9653 mL	3.9307 mL	
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: Cremophor EL Solubility: 37.74 mg/mL (148.34 mM); Clear solution; Need ultrasonic Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (9.83 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (9.83 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (9.83 mM); Clear solution 				

BIOLOGICAL ACTIVITY

Description	Palmitoleic acid, a composition of fatty acid, is implicated in the prevention of death from cerebrovascular disorders in SHRSP rats.
IC₅₀ & Target	Human Endogenous Metabolite

In Vitro

Palmitoleic acid is a kind of fatty acid in human milk^[1]. Among SHRSP given various fatty acids, a diet containing 1% Palmitoleic acid significantly improves the survival rate, with concomitant reduction in the incidence of stroke in spite of their excess NaCl intake through 1% NaCl water for drinking^[2].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Redox Biol. 2021 Jan;38:101807.
- Cell Rep. 2022 Sep 20;40(12):111381.
- Free Radic Biol Med. 2023 Mar 28;S0891-5849(23)00133-8.
- Eur J Lipid Sci Technol. 2023 Feb 25.

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REFERENCES

[1]. Ogunleye A, et al. Fatty acid composition of breast milk from Nigerian and Japanese women. J Nutr Sci Vitaminol (Tokyo). 1991 Aug;37(4):435-42.

[2]. Yamori Y, et al. Dietary prevention of stroke and its mechanisms in stroke-prone spontaneously hypertensive rats--preventive effect of dietary fibre and palmitoleic acid. J Hypertens Suppl. 1986 Oct;4(3):S449-52.

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

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