

Arachidonyl alcohol

Cat. No.:	HY-135801		
CAS No.:	13487-46-2		
Molecular Formula:	C ₂₀ H ₃₄ O		
Molecular Weight:	290.48		
Target:	Others		
Pathway:	Others		
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 : 250 mg/mL (860.64 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
	1 mM		3.4426 mL	17.2129 mL	34.4258 mL
5 mM		0.6885 mL	3.4426 mL	6.8852 mL	
10 mM		0.3443 mL	1.7213 mL	3.4426 mL	

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: **10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline**
Solubility: ≥ 2.08 mg/mL (7.16 mM); Clear solution
- Add each solvent one by one: **10% DMSO >> 90% (20% SBE-β-CD in saline)**
Solubility: ≥ 2.08 mg/mL (7.16 mM); Clear solution
- Add each solvent one by one: **10% DMSO >> 90% corn oil**
Solubility: ≥ 2.08 mg/mL (7.16 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Arachidonyl alcohol is a long-chain primary fatty alcohol. Arachidonyl alcohol is used as a **substrate** for the production of several ether lipids possessing beneficial functions^[1].

IC₅₀ & Target

IC₅₀: substrate for ether lipids^[1]

In Vitro

Arachidonyl alcohol can be converted from arachidonic acid, then arachidonyl alcohol accumulated inside the cells as

a wax ester. A new strain, Acinetobacter species N-476-2, can effectively convert arachidonic acid to arachidonyl alcohol^[1].

REFERENCES

[1]. Toshihiro Nagao, et al. Microbial Conversion of Arachidonic Acid to Arachidonyl Alcohol by a New Acinetobacter Species. Journal of the American Oil Chemists' Society volume 89, pages1663–1671(2012)

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

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