Ethyl linolenate

Cat. No.: HY-N2073

CAS No.: 1191-41-9

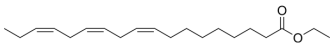
Molecular Formula: $C_{20}H_{34}O_2$

Molecular Weight: 306.48

Target: MCHR1 (GPR24)

Pathway: GPCR/G Protein; Neuronal Signaling

Storage: 4°C, stored under nitrogen
* In solvent : -80°C, 6 months; -20°C, 1 month (stored under nitrogen)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (326.29 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	3.2629 mL	16.3143 mL	32.6286 mL
	5 mM	0.6526 mL	3.2629 mL	6.5257 mL
	10 mM	0.3263 mL	1.6314 mL	3.2629 mL

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: ≥ 2.5 mg/mL (8.16 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: 2.5 mg/mL (8.16 mM); Suspended solution; Need ultrasonic
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (8.16 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Ethyl linolenate is a fatty acid ethyl ester (FAEE). Ethyl linolenate plays an active role in inhibition of the cellular production on melanin with an IC_{50} of 70 μM. Anti-melanogenesis Effects[1].

In Vitro

Ethyl linolenate significantly blocks Forskolin-induced melanogenesis and inhibits tyrosinase activity[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Sungran Huh, et al. Melanogenesis inhibitory effect of fatty acid alkyl esters isolated from Oxalis triangularis. Biol Pharm Bull. 2010;33(7):1242-5.

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