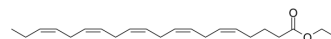


Eicosapentaenoic acid ethyl ester

Cat. No.:	HY-B0747
CAS No.:	86227-47-6
Molecular Formula:	C ₂₂ H ₃₄ O ₂
Molecular Weight:	330.5
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	4°C, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (stored under nitrogen)



SOLVENT & SOLUBILITY

In Vitro

Ethanol : 50 mg/mL (151.29 mM; Need ultrasonic)
DMSO : 33.33 mg/mL (100.85 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	3.0257 mL	15.1286 mL	30.2572 mL
	5 mM	0.6051 mL	3.0257 mL	6.0514 mL
	10 mM	0.3026 mL	1.5129 mL	3.0257 mL

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

In Vivo

- Add each solvent one by one: 10% EtOH >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 5 mg/mL (15.13 mM); Clear solution
- Add each solvent one by one: 10% EtOH >> 90% (20% SBE-β-CD in saline)
Solubility: 5 mg/mL (15.13 mM); Suspended solution; Need ultrasonic
- Add each solvent one by one: 10% EtOH >> 90% corn oil
Solubility: ≥ 5 mg/mL (15.13 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: 2.5 mg/mL (7.56 mM); Suspended solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: 2.5 mg/mL (7.56 mM); Suspended solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (7.56 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Eicosapentaenoic acid ethyl ester is an omega-3 fatty acid agent.

REFERENCES

- [1]. Jacobson TA. A new pure ω -3 eicosapentaenoic acid ethyl ester (AMR101) for the management of hypertriglyceridemia: the MARINE trial. *Expert Rev Cardiovasc Ther.* 2012 Jun;10(6):687-695.
- [2]. Bays HE, et al. Eicosapentaenoic acid ethyl ester (AMR101) therapy in patients with very high triglyceride levels (from the Multi-center, placebo-controlled, Randomized, double-blind, 12-week study with an open-label Extension [MARINE] trial). *Am J Cardiol.* 2011 Sep 1;108(5):682-690.
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Caution: Product has not been fully validated for medical applications. For research use only.

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