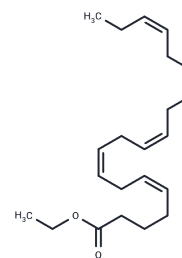


## Eicosapentaenoic acid ethyl ester

## Chemical Properties

CAS No. :	86227-47-6
Formula:	C22H34O2
Molecular Weight:	330.50
Storage:	Pure form: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



## Biological Description

Description	Eicosapentaenoic acid ethyl ester (Ethyl eicosapentaenoate) is an omega-3 fatty acid.
Targets(IC50)	Endogenous Metabolite
In vivo	Icosapent ethyl (IPE) 4 g/day significantly reduced large VLDL, total LDL, small LDL, and total HDL particle concentrations and VLDL particle size in patients with TG 500 mg/dL. Changes in VLDL particle concentration and size reflect the TG-lowering effects of eicosapentaenoic acid. The reduction in LDL particle concentration with IPE is novel among ω-3 therapies and is consistent with the previously reported reduction in apolipoprotein B and lack of LDL-C increase with IPE in patients with very high TG levels.

## Solubility Information

Solubility	DMSO: 247.5 mg/mL (748.87 mM), Sonication is recommended. Ethanol: 50 mg/mL (151.29 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
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
50 mM	0.0605 mL	0.3026 mL	0.6051 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

Bays H E , Braeckman R A , Ballantyne C M , et al. Icosapent ethyl, a pure EPA omega-3 fatty acid: effects on lipoprotein particle concentration and size in patients with very high triglyceride levels (the MARINE study).[J]. Journal of Clinical Lipidology, 2012, 6(6):565-572.

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.

Jacobson TA. A new pure  $\omega$ -3 eicosapentaenoic acid ethyl ester (AMR101) for the management of hypertriglyceridemia: the MARINE trial. Expert Rev Cardiovasc Ther. 2012 Jun;10(6):687-695.

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