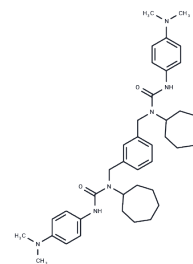


YM17E

## Chemical Properties

CAS No. : 124900-72-7  
 Formula: C40H56N6O2  
 Molecular Weight: 652.91  
 Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year  
 Actual storage temperature shall be subject to the COA.



## Biological Description

Description	YM17E is an inhibitor of ACAT with IC50 of 44 nM in rabbit liver microsomes in vitro.
Targets(IC50)	Acyltransferase,AChR
In vitro	YM17E is potent in inhibiting ACAT activity in the intestine with IC50 of 34 nM[1].
In vivo	YM17E inhibits the production of [14C]cholesteryloleate from [14C]oleoyl CoA in a dose-dependent manner in both liver and intestinal microsomes used as enzyme sources[1]. YM17E (3, 5, 10 mg/kg, i.v.) significantly inhibits hepatic ACAT activities in a dose-dependent manner. YM17E (oral; i.v.) produces a significant increase in 125I-LDL clearance in atherogenic diet-fed rats. YM17E (3, 10, 30 mg/kg; p.o.) decreases total cholesterol, cholesteryl ester, and non-HDL cholesterol in a dose-dependent manner. YM17E (oral) decreases total cholesterol and cholesteryl ester levels in the liver significantly in a dose-dependent manner[2].

## Solubility Information

Solubility	DMSO: 12 mg/mL (18.38 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

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	1mg	5mg	10mg
1 mM	1.5316 mL	7.658 mL	15.316 mL
5 mM	0.3063 mL	1.5316 mL	3.0632 mL
10 mM	0.1532 mL	0.7658 mL	1.5316 mL
50 mM	0.0306 mL	0.1532 mL	0.3063 mL

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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

Kashiwa M, et al. Pharmacological properties of YM17E, an acyl-CoA:cholesterol acyltransferase inhibitor, and diarrheal effect in beagle dogs. *Jpn J Pharmacol.* 1997 Jan;73(1):41-50.

Uchida T, et al. Relationship between bioavailability and hypocholesterolemic activity of YM17E, an inhibitor of ACAT, in cholesterol-fed rats. *Atherosclerosis.* 1998 Mar;137(1):97-106.

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