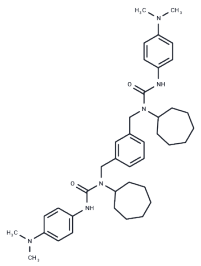
# Data Sheet (Cat.No.T13373)

YM17E

## Chemical Properties



CAS No. : 124900-72-7

Formula: C40H56N6O2

Molecular Weight: 652.91

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

## 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.<br>(< 1 mg/ml refers to the product slightly soluble or insoluble) |

Preparing Stock Solutions

| | 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 |

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.

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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