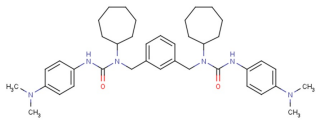
Data Sheet (Cat.No.T13373)

YM17E

Chemical Properties



CAS No.:	124900-72-7
Formula:	C40H56N6O2
Molecular Weight:	652.91
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

Biological Description

Description	YM17E is an acyl CoA:cholesterol acyltransferase (ACAT) inhibitor(IC50 of 44 nM in rabbit liver microsomes in vitro).
Targets(IC_{50})	ACAT in rabbit liver microsomes: 44 nM
In vitro	YM17E is as potent in inhibiting ACAT activity in the liver as in the intestine, (IC50 of 45 and 34 nM, respectively) [2].
In vivo	total cholesterol, cholesteryl ester and non-HDL cholesterol in a dose-dependent manner decreased by YM17E (3, 10 and 30 mg/kg per day, p.o.) . Total cholesterol and cholesteryl ester levels in liver do not decrease significantly after intravenous administration of YM17E, but do decrease significantly and in a dose-dependent manner after oral administration. YM17E (3, 5, 10 mg/kg, i.v.) significantly inhibits hepatic ACAT activities in a dose-dependent manner. YM17E produces a significant increase in 125I-LDL clearance in atherogenic diet-fed rats after both oral and intravenous administration[1]. YM17E inhibits production of [14C]cholesteryloleate from [14C]oleoyl CoA in a dose-dependent manner in both liver and intestinal microsomes used as enzyme sources[2].

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.532 mL	7.658 mL	15.316 mL
5 mM	0.306 mL	1.532 mL	3.063 mL
10 mM	0.153 mL	0.766 mL	1.532 mL
50 mM	0.031 mL	0.153 mL	0.306 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 ℃ for 6 months; - 20 ℃ for 1 month. Please use it as soon as possible.

Reference

1. 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.

2. 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.

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