Web: www.taiclone.com
Tel: +886-2-2735-9682
Email: order@taiclone.com

YM17E

Catalog No: tcsc6836

Available Sizes

Size: 1mg

Size: 5mg

Size: 10mg

Size: 20mg

Specifications

CAS No:
124900-72-7

Formula:
$C_{40}H_{56}N_6O_2$

Pathway:
Metabolic Enzyme/Protease

Target:
Acyltransferase

Purity / Grade:
>98%

Solubility:
10 mM in DMSO

Observed Molecular Weight:
652.91

Product Description

YM17E is an inhibitor of acyl CoA:cholesterol acyltransferase (**ACAT**), with **IC_{50}** of 44 nM in rabbit liver microsomes in vitro.

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IC50 & Target: IC50: 44 nM (ACAT in rabbit liver microsomes)[1]

In Vitro: YM17E is as potent in inhibiting ACAT activity in the liver as in the intestine, with IC_{50} values of 45 and 34 nM, respectively [2].

In Vivo: YM17E (3, 10 and 30 mg/kg per day, p.o.) decreases total cholesterol, cholesteryl ester and non-HDL cholesterol in a dose-dependent manner. 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 ^{125}I-LDL clearance in atherogenic diet-fed rats after both oral and intravenous administration[1]. YM17E inhibits production of [^{14}C]cholesteryloleate from [^{14}C]oleoyl CoA in a dose-dependent manner in both liver and intestinal microsomes used as enzyme sources[2].