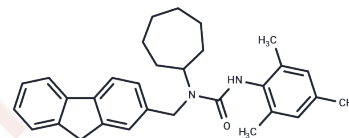


YM-750

Chemical Properties

CAS No. : 138046-43-2
 Formula: C₃₁H₃₆N₂O
 Molecular Weight: 452.63
 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	YM-750 is a potent inhibitor of acyl-CoA:cholesterol acyltransferase (ACAT), with an IC ₅₀ value of 0.18 μM. ACAT is an enzyme that catalyzes the conversion of cholesterol and long-chain fatty-acyl-coenzyme A into cholesteryl esters.
Targets(IC ₅₀)	Acyltransferase

Solubility Information

Solubility	DMSO: 100 mg/mL (220.93 mM),Sonication is recommended. Ethanol: < 1 mg/mL (insoluble or slightly soluble), (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 3.3 mg/mL (7.29 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2093 mL	11.0466 mL	22.0931 mL
5 mM	0.4419 mL	2.2093 mL	4.4186 mL
10 mM	0.2209 mL	1.1047 mL	2.2093 mL
50 mM	0.0442 mL	0.2209 mL	0.4419 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

Nagata Y, et al. N-[2-[N'-pentyl-(6,6-dimethyl-2,4-heptadiynyl)amino]ethyl]- (2-methyl-1-naphthylthio)acetamide (FY-087). A new acyl coenzyme a:cholesterol acyltransferase (ACAT) inhibitor of diet-induced atherosclerosis formation in mice. *Biochem Pharmacol.* 1995;49(5):643-651.

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