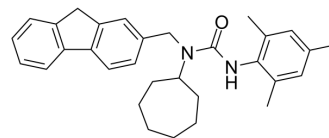


YM-750

Cat. No.:	HY-107396		
CAS No.:	138046-43-2		
Molecular Formula:	C ₃₁ H ₃₆ N ₂ O		
Molecular Weight:	452.63		
Target:	Acyltransferase		
Pathway:	Metabolic Enzyme/Protease		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (220.93 mM; Need ultrasonic)			
		Solvent Concentration	Mass	
			1 mg	5 mg
			10 mg	
Preparing Stock Solutions	1 mM	2.2093 mL	11.0465 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
Please refer to the solubility information to select the appropriate solvent.				
In Vivo	1. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (5.52 mM); Clear solution			

BIOLOGICAL ACTIVITY

Description	YM-750 is a potent acyl-CoA:cholesterol acyltransferase (ACAT) inhibitor (IC ₅₀ =0.18 μM). ACAT catalyzes the formation of cholesteryl esters from cholesterol and long-chain fatty-acyl-coenzyme A ^{[1][2]} .
In Vitro	Foam cells accumulated esterified cholesterol (EC) for 24 h in the presence of acLDL without Cu ²⁺ , which is suppressed by KY-455 and YM-750 ^[3] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. 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*

[2]. Chang C, et al. Human acyl-CoA:cholesterol acyltransferase (ACAT) and its potential as a target for pharmaceutical intervention against atherosclerosis. Acta Biochim Biophys Sin (Shanghai). 2006;38(3):151-156.

[3]. Miike T, et al. Effects of an anti-oxidative ACAT inhibitor on apoptosis/necrosis and cholesterol accumulation under oxidative stress in THP-1 cell-derived foam cells. Life Sci. 2008;82(1-2):79-84.

Caution: Product has not been fully validated for medical applications. For research use only.

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