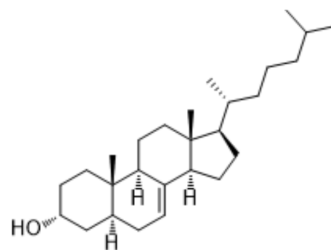


Lathosterol

Cat. No.:	HY-113486
CAS No.:	80-99-9
Molecular Formula:	C ₂₇ H ₄₆ O
Molecular Weight:	386.65
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	-20°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro	Ethanol : 33.33 mg/mL (86.20 mM; Need ultrasonic)					
	DMSO : 2 mg/mL (5.17 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent	Mass	1 mg	5 mg	10 mg
		Concentration				
		1 mM		2.5863 mL	12.9316 mL	25.8632 mL
5 mM			0.5173 mL	2.5863 mL	5.1726 mL	
10 mM		0.2586 mL	1.2932 mL	2.5863 mL		
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 10% EtOH >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2 mg/mL (5.17 mM); Clear solution					
	2. Add each solvent one by one: 10% EtOH >> 90% corn oil Solubility: ≥ 2 mg/mL (5.17 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	Lathosterol is a cholesterol-like molecule. Serum Lathosterol concentration is an indicator of whole-body cholesterol synthesis.
IC ₅₀ & Target	Human Endogenous Metabolite

CUSTOMER VALIDATION

- Cell Death Dis. 2023 Nov 14;14(11):740.

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- Research Square Preprint. 2023 Jun 22.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Kempen HJ, et al. Serum Lathosterol concentration is an indicator of whole-body cholesterol synthesis in humans. J Lipid Res. 1988 Sep;29(9):1149-55.

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

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