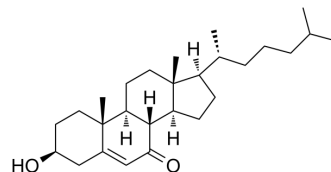


7-Ketocholesterol

Cat. No.:	HY-113342
CAS No.:	566-28-9
Molecular Formula:	C ₂₇ H ₄₄ O ₂
Molecular Weight:	400.64
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	-20°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 6.25 mg/mL (15.60 mM); ultrasonic and warming and heat to 60°C

Concentration	Mass			
	1 mg	5 mg	10 mg	
1 mM	2.4960 mL	12.4800 mL	24.9601 mL	
5 mM	0.4992 mL	2.4960 mL	4.9920 mL	
10 mM	0.2496 mL	1.2480 mL	2.4960 mL	

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

7-Ketocholesterol, toxic oxysterol, inhibits the rate-limiting step in bile acid biosynthesis cholesterol 7 alpha-hydroxylase, as well as strongly inhibiting HMG-CoA reductase (the rate-limiting enzyme in cholesterol biosynthesis). 7-Ketocholesterol induces cell apoptosis^[1].

IC₅₀ & Target

Human Endogenous Metabolite

REFERENCES

- [1]. M A Lyons, et al. 7-Ketocholesterol. *Int J Biochem Cell Biol.* Mar-Apr 1999;31(3-4):369-75.
- [2]. Amelia Anderson, et al. 7-Ketocholesterol in disease and aging. *Redox Biol.* 2020 Jan;29:101380.

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

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