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Forschungsprodukte & Biochemikalien



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Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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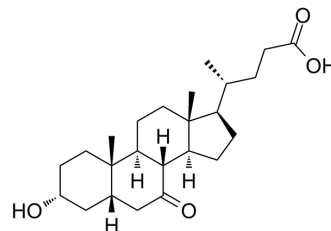
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7-Ketolithocholic acid

Cat. No.:	HY-W018512		
CAS No.:	4651-67-6		
Molecular Formula:	C ₂₄ H ₃₈ O ₄		
Molecular Weight:	390.56		
Target:	Endogenous Metabolite		
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 (256.04 mM)
 * "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent		Mass		
	Concentration		1 mg	5 mg	10 mg
	1 mM		2.5604 mL	12.8021 mL	25.6043 mL
	5 mM		0.5121 mL	2.5604 mL	5.1209 mL
	10 mM		0.2560 mL	1.2802 mL	2.5604 mL

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

In Vivo

- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
 Solubility: ≥ 2.5 mg/mL (6.40 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
 Solubility: ≥ 2.5 mg/mL (6.40 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

7-Ketolithocholic acid (3α-Hydroxy-7-oxo-5β-cholanic acid), a bile acid, can be absorbed and suppresses endogenous bile acid production and biliary cholesterol secretion^{[1][2]}.

IC₅₀ & Target

Human Endogenous Metabolite

In Vitro

Bile acids are main components of mammalian bile. They are steroid carboxylic acids that synthesized from cholesterol in liver tissue^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Cell Host Microbe. 2024 Jan 11:S1931-3128(23)00510-3.

See more customer validations on www.MedChemExpress.com

REFERENCES

- [1]. Choucair I, et al. Quantification of bile acids: a mass spectrometry platform for studying gut microbe connection to metabolic diseases. J Lipid Res. 2020 Feb;61(2):159-177.
- [2]. Salen G, et al. Effect of 7-ketolithocholic acid on bile acid metabolism in humans. Gastroenterology. 1982 Aug;83(2):341-7.
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Caution: Product has not been fully validated for medical applications. For research use only.

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