



SZABO SCANDIC

Part of Europa Biosite

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

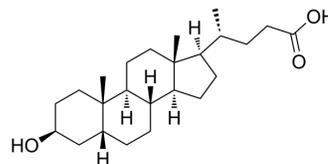
mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

Isolithocholic acid

Cat. No.:	HY-B0172B		
CAS No.:	1534-35-6		
Molecular Formula:	C ₂₄ H ₄₀ O ₃		
Molecular Weight:	376.57		
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 : 28.57 mg/mL (75.87 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	2.6555 mL	13.2777 mL	26.5555 mL
		5 mM	0.5311 mL	2.6555 mL	5.3111 mL
10 mM		0.2656 mL	1.3278 mL	2.6555 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.86 mg/mL (7.59 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.86 mg/mL (7.59 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.86 mg/mL (7.59 mM); Clear solution 				

BIOLOGICAL ACTIVITY

Description	Isolithocholic acid (β-Lithocholic acid) is an isomer of Lithocholic acid. Isolithocholic acid, a bile acid, is formed by microbial metabolism of Lithocholic acid or Lithocholic acid 3α-sulfate ^{[1][2]} .
IC₅₀ & Target	Microbial Metabolite
In Vitro	Isolithocholic acid at 0.01 % does not inhibit spore germination and outgrowth of CF5 and M120, but it significantly inhibits at the higher concentration (0.1 %). Isolithocholic acid (0.00003 %) prevents growth of CD196, M68, CF5, 630, and BI9 and

significant decreases strains CF5, BI9, M120, and 630 in toxin activity. Isolithocholic acid (0.0003 %) makes that all strains displays a significant decrease in toxin activity, except for R20291 and M120^[3].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

In Vivo

The levels of fecal Isolithocholic acid shows obvious decreases from day 28 onward in the high fat diet (HFD) group compared with rats fed a normal diet^[4].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Batta AK, et al. Transformation of bile acids into iso-bile acids by Clostridium perfringens: possible transport of 3 beta-hydrogen via the coenzyme. Hepatology. 1985;5(6):1126-1131.
- [2]. Borriello SP, et al. The metabolism of lithocholic acid and lithocholic acid-3-alpha-sulfate by human fecal bacteria. Lipids. 1982;17(7):477-482.
- [3]. Thanissery R, et al. Inhibition of spore germination, growth, and toxin activity of clinically relevant C. difficile strains by gut microbiota derived secondary bile acids. Anaerobe. 2017;45:86-100.
- [4]. Lin H, et al. Alterations of Bile Acids and Gut Microbiota in Obesity Induced by High Fat Diet in Rat Model. J Agric Food Chem. 2019;67(13):3624-3632.
-

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA