



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



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

### SZABO-SCANDIC HandelsgmbH

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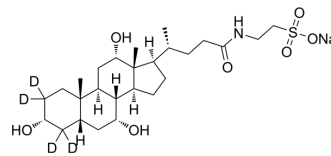
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## Taurocholic acid-d<sub>4</sub> sodium

<b>Cat. No.:</b>	HY-B1788S
<b>CAS No.:</b>	2410279-93-3
<b>Molecular Formula:</b>	C <sub>26</sub> H <sub>40</sub> D <sub>4</sub> NNaO <sub>7</sub> S
<b>Molecular Weight:</b>	541.71
<b>Target:</b>	Endogenous Metabolite
<b>Pathway:</b>	Metabolic Enzyme/Protease
<b>Storage:</b>	-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

DMSO : 50 mg/mL (92.30 mM; Need ultrasonic)  
 DMF : ≥ 25 mg/mL (46.15 mM)  
 DMF : ≥ 25 mg/mL (46.15 mM)  
 DMSO : ≥ 20 mg/mL (36.92 mM)  
 PBS (pH 7.2) : ≥ 3 mg/mL (5.54 mM)  
 Ethanol : ≥ 2 mg/mL (3.69 mM)  
 Ethanol : ≥ 2 mg/mL (3.69 mM)  
 \* "≥" means soluble, but saturation unknown.

	Solvent	Mass	Concentration		
			1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		1.8460 mL	9.2300 mL	18.4601 mL
	5 mM		0.3692 mL	1.8460 mL	3.6920 mL
	10 mM		0.1846 mL	0.9230 mL	1.8460 mL

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

### BIOLOGICAL ACTIVITY

#### Description

Taurocholic acid-d<sub>4</sub> (sodium) is the deuterium labeled Taurocholic acid. Taurocholic acid (N-Choloyltaurine) is a bile acid involved in the emulsification of fats.

#### In Vitro

Stable heavy isotopes of hydrogen, carbon, and other elements have been incorporated into drug molecules, largely as tracers for quantitation during the drug development process. Deuteration has gained attention because of its potential to affect the pharmacokinetic and metabolic profiles of drugs<sup>[1]</sup>.  
 MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

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[1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother.* 2019;53(2):211-216.

[2]. Mooranian A, et al. The effect of a tertiary bile acid, taurocholic acid, on the morphology and physical characteristics of microencapsulated probucol: potential applications in diabetes: a characterization study. *Drug Deliv Transl Res.* 2015 Oct;5(5):511-22.

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

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