



# 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

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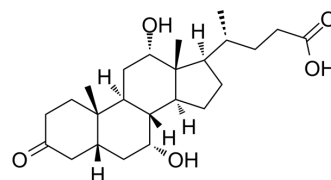
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## 3-Oxocholeic acid

|                    |  |       |          |
|--------------------|--|-------|----------|
| Cat. No.:          | HY-N7387                                       |       |          |
| CAS No.:           | 2304-89-4                                      |       |          |
| Molecular Formula: | C <sub>24</sub> H <sub>38</sub> O <sub>5</sub> |       |          |
| Molecular Weight:  | 406.56   |       |          |
| 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 (245.97 mM; Need ultrasonic)   |                          |              |            |            |
|   |   | Solvent<br>Concentration | Mass<br>1 mg | 5 mg       | 10 mg      |
|   | Preparing Stock Solutions   | 1 mM                     | 2.4597 mL    | 12.2983 mL | 24.5966 mL |
|   |   | 5 mM                     | 0.4919 mL    | 2.4597 mL  | 4.9193 mL  |
| 10 mM   |   | 0.2460 mL                | 1.2298 mL    | 2.4597 mL  |            |
| Please refer to the solubility information to select the appropriate solvent. |   |                          |              |            |            |
| In Vivo   | 1. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)<br>Solubility: ≥ 2.5 mg/mL (6.15 mM); Clear solution |                          |              |            |            |
|   | 2. Add each solvent one by one: 10% DMSO >> 90% corn oil<br>Solubility: ≥ 2.5 mg/mL (6.15 mM); Clear solution                 |                          |              |            |            |

### BIOLOGICAL ACTIVITY

|             |   |
|-------------|---|
| Description | 3-Oxocholeic acid is an oxo-bile acid metabolite and also a major degradation product from cholic by <i>C. perfringens</i> in the intestine. 3-Oxocholeic acid is steroid acid found predominantly in bile of mammals <sup>[1][2][3]</sup> .  |
| In Vivo     | Male Goto-Kakizaki (GK) rats are subjected to Ileal transposition (IT) surgery. In the metabolomics analysis, compared with Sham-IT rats, 3-Oxocholeic acid of IT rats is increased <sup>[2]</sup> .<br>MCE has not independently confirmed the accuracy of these methods. They are for reference only. |

### REFERENCES

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[1]. Macdonald I, et al. Identification of 7 $\alpha$ -, 12 $\alpha$ -dihydroxy-3-oxo cholanoic acid as the major degradation product from cholic by *C. perfringens*. *J Steroid Biochem.* 1978 Apr;9(4):353-8.

[2]. Yan K, et al. The Changes of Serum Metabolites in Diabetic GK Rats after Ileal Transposition Surgery. *Obes Surg.* 2019 Mar;29(3):882-890.

[3]. Wahlström A, et al. Intestinal Crosstalk between Bile Acids and Microbiota and Its Impact on Host Metabolism. *Cell Metab.* 2016 Jul 12;24(1):41-50.

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

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