



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

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### 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](mailto:mail@szabo-scandic.com)

[www.szabo-scandic.com](http://www.szabo-scandic.com)

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

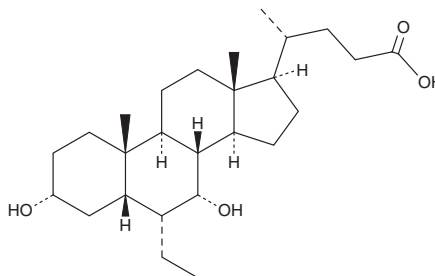
# PRODUCT INFORMATION



## 6-ECDCA

Item No. 11031

**CAS Registry No.:** 459789-99-2  
**Formal Name:** (3 $\alpha$ ,5 $\beta$ ,6 $\alpha$ ,7 $\alpha$ )-6-ethyl-3,7-dihydroxy-cholan-24-oic acid  
**Synonyms:** INT 747, Obeticholic Acid  
**MF:** C<sub>26</sub>H<sub>44</sub>O<sub>4</sub>  
**FW:** 420.6  
**Purity:**  $\geq$ 95%  
**Supplied as:** A crystalline solid  
**Storage:** -20°C  
**Stability:**  $\geq$ 2 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

### Laboratory Procedures

6-ECDCA is supplied as a crystalline solid. A stock solution may be made by dissolving the 6-ECDCA in the solvent of choice, which should be purged with an inert gas. 6-ECDCA is soluble in organic solvents such as ethanol, DMSO, and methanol.

### Description

Farnesoid X receptor (FXR) is a nuclear receptor that is activated by bile acid, with chenodeoxycholic acid (CDCA) being a representative natural ligand.<sup>1</sup> 6-ECDCA is a synthetic bile acid that acts as a potent and selective agonist of FXR (EC<sub>50</sub> = 99 nM).<sup>2</sup> Through FXR, it alters gene expression that results in protection against cholestasis as well as liver fibrosis.<sup>2-4</sup> 6-ECDCA also, through FXR, promotes the differentiation of adipocytes and enhances insulin signaling in mature adipocytes.<sup>5</sup> In ApoE<sup>-/-</sup> mice, 6-ECDCA ameliorates vascular calcification secondary to chronic kidney disease without affecting the development of atherosclerosis.<sup>6</sup>

### References

1. Rizzo, G., Renga, B., Antonelli, E., *et al.* *Mol. Pharmacol.* **68**(2), 551-558 (2005).
2. Pellicciari, R., Fiorucci, S., Camaioni, E., *et al.* *J. Med. Chem.* **45**(17), 3569-3572 (2002).
3. Fiorucci, S., Clerici, C., Antonelli, E., *et al.* *J. Pharmacol. Exp. Ther.* **313**(2), 604-612 (2005).
4. Fiorucci, S., Rizzo, G., Antonelli, E., *et al.* *J. Pharmacol. Exp. Ther.* **314**(2), 584-595 (2005).
5. Rizzo, G., Disante, M., Mencarelli, A., *et al.* *Mol. Pharmacol.* **70**(4), 1164-1173 (2006).
6. Miyazaki-Anzai, S., Levi, M., Kratzer, A., *et al.* *Circ. Res.* **106**, 1807-1817 (2010).

#### WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

#### SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the [complete](#) Safety Data Sheet, which has been sent via email to your institution.

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#### CAYMAN CHEMICAL

1180 EAST ELLSWORTH RD  
ANN ARBOR, MI 48108 · USA

**PHONE:** [800] 364-9897  
[734] 971-3335

**FAX:** [734] 971-3640

CUSTSERV@CAYMANCHEM.COM  
WWW.CAYMANCHEM.COM