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Produktinformation

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- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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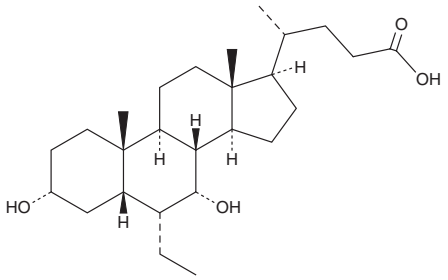
PRODUCT INFORMATION

6-ECDCA

Item No. 11031

CAS Registry No.:	459789-99-2
Formal Name:	(3α,5β,6α,7α)-6-ethyl-3,7-dihydroxy-cholan-24-oic acid
Synonyms:	INT 747, Obeticholic Acid
MF:	$C_{26}H_{44}O_4$
FW:	420.6
Purity:	≥95%
Supplied as:	A crystalline solid
Storage:	-20°C
Stability:	≥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.[1] 6-ECDCA is a synthetic bile acid that acts as a potent and selective agonist of FXR (EC_{50} = 99 nM).[2] Through FXR, it alters gene expression that results in protection against cholestasis as well as liver fibrosis.[2-4] 6-ECDCA also, through FXR, promotes the differentiation of adipocytes and enhances insulin signaling in mature adipocytes.[5] In $ApoE^{-/-}$ mice, 6-ECDCA ameliorates vascular calcification secondary to chronic kidney disease without affecting the development of atherosclerosis.[6]

References

1. Rizzo, G., Renga, B., Antonelli, E., *et al. Mol. Pharmacol.* **68(2)**, 551-558 (2005).
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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).

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