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Produktinformation



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Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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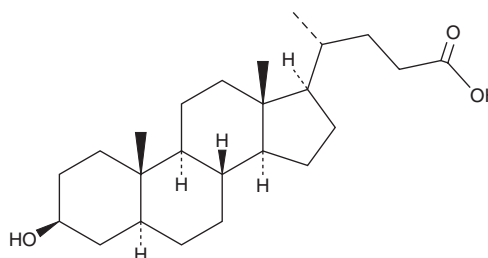
PRODUCT INFORMATION



Alloisolithocholic Acid

Item No. 29542

CAS Registry No.: 2276-93-9
Formal Name: (5 α)-3 β -hydroxy-cholan-24-oic acid
Synonyms: AILCA, Isoallolithocholic Acid, NSC 18169
MF: C₂₄H₄₀O₃
FW: 376.6
Purity: \geq 98%
Supplied as: A 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

Alloisolithocholic acid (AILCA) is supplied as a solid. A stock solution may be made by dissolving the AILCA in the solvent of choice, which should be purged with an inert gas. AILCA is soluble in the organic solvent dimethyl formamide (DMF) at a concentration of approximately 1 mg/ml.

AILCA is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, AILCA should first be dissolved in DMF and then diluted with the aqueous buffer of choice. AILCA has a solubility of approximately 0.25 mg/ml in a 1:3 solution of DMF:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

AILCA is an allomonohydroxy bile acid.^{1,2} It activates large-conductance calcium-activated potassium channels (K_{Ca}1.1/ BK_{Ca}s; EC₅₀ = 44.21 μ M in *Xenopus* oocytes expressing human channels).¹ AILCA (6 mg/kg) reduces hepatic bile flow and bile salt, cholesterol, and phospholipid secretion, as well as induces loss of microvilli and dilation of canaliculi in hepatocytes, markers of cholestasis, in rats.²

References

1. Bukiya, A.N., McMillan, J., Parrill, A.L., *et al.* Structural determinants of monohydroxylated bile acids to activate β_1 subunit-containing BK channels. *J. Lipid Res.* **49(11)**, 2441-2451 (2008).
2. Vonk, R.J., Tuchweber, B., Massé, D., *et al.* Intrahepatic cholestasis induced by allo monohydroxy bile acid in rats. *Gastroenterology* **80(2)**, 242-249 (1981).

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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