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Produktinformation

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- Laborgeräte & Service

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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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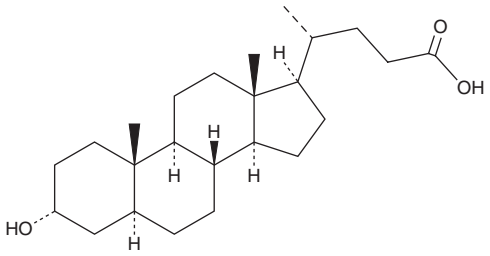
PRODUCT INFORMATION

Allolithocholic Acid

Item No. 38158

CAS Registry No.: 2276-94-0
Formal Name: (3α,5α)-3-hydroxy-cholan-24-oic acid
Synonyms: 3α-hydroxy-5α-Cholanoic Acid, *allo*-LCA
MF: $C_{24}H_{40}O_3$
FW: 376.6
Purity: ≥98%
Supplied as: A solid
Storage: -20°C
Stability: ≥4 years



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

Laboratory Procedures

Allolithocholic acid is supplied as a solid. A stock solution may be made by dissolving the allolithocholic acid in the solvent of choice, which should be purged with an inert gas. Allolithocholic acid is slightly soluble in ethanol, methanol, and DMSO.

Description

Allolithocholic acid is a secondary allomonohydroxy bile acid.[1] It activates large-conductance calcium-activated potassium channels (BK/K_{Ca}s; EC_{50} = 44.21 µM in *Xenopus* oocytes expressing the rat channel). Fecal levels of allolithocholic acid are increased in patients with colorectal cancer.[2] Allolithocholic acid has also been found in the urine of infants with biliary atresia.[3]

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. T., T., Kanoh, M., Kondoh, H., *et al*. Kinetic analysis of bile acids in the feces of colorectal cancer patients by gas chromatography-mass spectrometry (GC-MS). *Rinsho Byori.* **55(5)**, 417-427 (2007).
3. Makino, I., Sjövall, J., Norman, A., *et al*. Excretion of 3β-hydroxy-5-cholenoic and 3α-hydroxy-5α-cholanoic acids in urine of infants with biliary atresia. *FEBS Lett.* **15(2)**, 161-164 (1971).

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