

Produktinformation



Forschungsprodukte & Biochemikalien



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Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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PRODUCT INFORMATION



Allolithocholic Acid-d₄

Item No. 41156

Formal Name: (3α,5α)-3-hydroxy-cholan-24-oic-

2,2,4,4-d₄ acid

3α-hydroxy-5α-Cholanoic Acid-d₄, Synonyms:

allo-LCA-d₄

MF: $C_{24}H_{36}D_4O_3$

FW: 380.6

Chemical Purity: ≥98% (Allolithocholic acid)

Deuterium

Incorporation: \geq 99% deuterated forms (d₁-d₄); \leq 1% d₀

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- d_{Δ} is intended for use as an internal standard for the quantification of allolithocholic acid (Item No. 38158) by GC- or LC-MS. The accuracy of the sample weight in this vial is between 5% over and 2% under the amount shown on the vial. If better precision is required, the deuterated standard should be quantitated against a more precisely weighed unlabeled standard by constructing a standard curve of peak intensity ratios (deuterated versus unlabeled).

Allolithocholic acid- d_A is supplied as a solid. A stock solution may be made by dissolving the allolithocholic acid- d_{Δ} in the solvent of choice, which should be purged with an inert gas. Allolithocholic acid- d_{Δ} is sparingly soluble (1-10 mg/ml) in ethanol and DMSO.

Description

Allolithocholic acid is a secondary allomonohydroxy bile acid.¹ It activates large-conductance calciumactivated potassium channels (BK/ K_{Ca} s; EC₅₀ = 44.21 μ M 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 \$1 subunit-containing BK channels. J. Lipid Res. 49(11), 2441-2451 (2008).
- Tadano, 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).
- Makino, I., Sjövall, J., Norman, A., et al. Excretion of 3β-hydroxy-5-cholenoic and 3α-hydroxy-5αcholanoic acids in urine of infants with biliary atresia. FEBS Lett. 15(2), 161-164 (1971).

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

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.

WARRANTY AND LIMITATION OF REMEDY

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