PRODUCT INFORMATION



7α-hydroxy-4-Cholesten-3-one-d₇

Item No. 26100

CAS Registry No.: 2260669-17-6

Formal Name: (7α)-7-hydroxy-cholest-4-en-3-one-

25,26,26,26,27,27,27-d₇

MF: $C_{27}H_{37}D_7O_2$

407.7 FW:

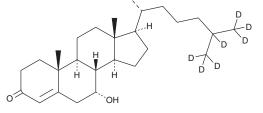
Chemical Purity: ≥98% (7\alpha-hydroxy-4-Cholesten-3-one)

Deuterium

≥99% deuterated forms (d_1-d_7) ; ≤1% d_0 Incorporation:

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

 7α -hydroxy-4-Cholesten-3-one- d_7 is intended for use as an internal standard for the quantification of 7α-hydroxy-4-cholesten-3-one (Item No. 25442) 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).

 7α -hydroxy-4-Cholesten-3-one-d₇ is supplied as a solid. A stock solution may be made by dissolving the 7α -hydroxy-4-cholesten-3-one-d₇ in the solvent of choice, which should be purged with an inert gas. 7α -hydroxy-4-Cholesten-3-one- d_7 is slightly soluble in chloroform.

Description

7α-hydroxy-4-Cholesten-3-one is a metabolite of 7α-hydroxy cholesterol and an intermediate in the biosynthesis of bile acids. Plasma levels of 7α -hydroxy-4-cholesten-3-one positively correlate with the rate of bile acid synthesis in humans and are increased in patients following ileal resection.²

References

- 1. Russell, D.W. The enzymes, regulation, and genetics of bile acid synthesis. Annu. Rev. Biochem. 72, 137-174 (2003).
- 2. Axelson, M., Aly, A., and Sjövall, J. Levels of 7α-hydroxy-4-cholesten-3-one in plasma reflect rates of bile acid synthesis in man. FEBS Lett. 239(2), 324-328 (1988).

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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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