PRODUCT INFORMATION



3β,7α-Dihydroxycholest-5-enoic Acid-d₂

Item No. 29538

CAS Registry No.: 2342573-95-7

Formal Name: 3β,7α-dihydroxy-cholest-5-en-26-oic-

27,27,27-d₃

MF: $C_{27}H_{41}D_3O_4$ FW: 435.7

Chemical Purity: ≥95% (mixture of diastereomers)

(3β,7α-dihydroxycholest-5-enoic acid)

Deuterium

Incorporation: \geq 99% deuterated forms (d₁-d₃); \leq 1% d₀

Supplied as: A crystalline solid

-20°C Storage: Stability: ≥2 years

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

Laboratory Procedures

 3β , 7α -Dihydroxycholest-5-enoic acid-d₃ is intended for use as an internal standard for the quantification of 3β , 7α -dihydroxycholest-5-enoic acid 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).

 3β , 7α -Dihydroxycholest-5-enoic acid- d_3 is supplied as a crystalline solid. A stock solution may be made by dissolving the 3β , 7α -dihydroxycholest-5-enoic acid-d₃ in the solvent of choice, which should be purged with an inert gas. 3β , 7α -Dihydroxycholest-5-enoic acid-d₃ is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide. The solubility of 3\(\beta\),7\(\alpha\)-dihydroxycholest-5-enoic acid-d₃ in these solvents is approximately 30 mg/ml.

Description

3β,7α-Dihydroxycholest-5-enoic acid is a metabolite of the cholesterol metabolite cholestenoic acid (Item No. 21859) and a bile acid biosynthetic intermediate. 1,2

References

- 1. Meaney, S., Babiker, A.G., Lütjohann, D., et al. On the origin of the cholestenoic acids in human circulation. Steroids 68(7-8), 595-601 (2003).
- 2. Axelson, M., Mörk, B., and Sjövall, J. Occurrence of 3β-hydroxy-5-cholestenoic acid, 3β,7α-dihydroxy-5-cholestenoic acid, and 7α -hydroxy-3-oxo-4-cholestenoic acid as normal constituents in human blood. J. Lipid. Res. 29(5), 629-641 (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.

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