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- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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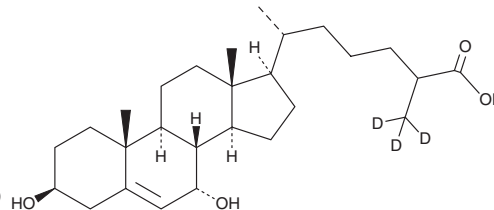
PRODUCT INFORMATION



3β,7α-Dihydroxycholest-5-enoic Acid-d₃ Item No. 29538

CAS Registry No.: 2342573-95-7
Formal Name: 3β,7α-dihydroxy-cholest-5-en-26-oic-
27,27,27-d₃
MF: C₂₇H₄₁D₃O₄
FW: 435.7
Chemical Purity: ≥95% (mixture of diastereomers)
(3β,7α-dihydroxycholest-5-enoic acid)

Deuterium Incorporation: ≥99% deuterated forms (d₁-d₃); ≤1% d₀
Supplied as: A crystalline solid
Storage: -20°C
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-d₃ 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 3β,7α-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 cholestenic 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 cholestenic acids in human circulation. *Steroids* **68**(7-8), 595-601 (2003).
2. Axelson, M., Mörk, B., and Sjövall, J. Occurrence of 3β-hydroxy-5-cholestenic acid, 3β,7α-dihydroxy-5-cholestenic acid, and 7α-hydroxy-3-oxo-4-cholestenic 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.

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.

WARRANTY AND LIMITATION OF REMEDY

Buyer agrees to purchase the material subject to Cayman's Terms and Conditions. Complete Terms and Conditions including Warranty and Limitation of Liability information can be found on our website.

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