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Produktinformation

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- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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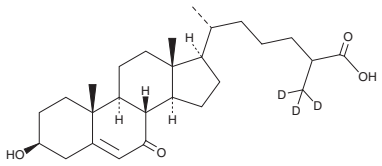
PRODUCT INFORMATION

3β-hydroxy-7-oxo-5-Cholestenoic Acid-d_3

Item No. 29539

CAS Registry No.: 2342573-92-4
Formal Name: 3β-hydroxy-7-oxo-cholest-5-en-26-oic-27,27,27-d_3 acid
Synonyms: 3β-hydroxy-7-oxo-5-CA-d_3, 3β-hydroxy-7-oxocholest-5-enoic Acid-d_3
MF: $C_{27}H_{39}D_3O_4$
FW: 433.6
Chemical Purity: ≥98% (3β-hydroxy-7-oxo-5-Cholestenoic Acid)
Deuterium Incorporation: ≥99% deuterated forms (d_1-d_3); ≤1% d_0
Supplied as: A 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-hydroxy-7-oxo-5-Cholestenoic acid-d_3 is intended for use as an internal standard for the quantification of 3β-hydroxy-7-oxo-5-cholestenoic 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-hydroxy-7-oxo-5-Cholestenoic acid-d_3 is supplied as a solid. A stock solution may be made by dissolving the 3β-hydroxy-7-oxo-5-cholestenoic acid-d_3 in the solvent of choice, which should be purged with an inert gas. 3β-hydroxy-7-oxo-5-Cholestenoic acid-d_3 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF). The solubility of 3β-hydroxy-7-oxo-5-cholestenoic acid-d_3 in DMSO and DMF is approximately 1 and 2 mg/ml, respectively. 3β-hydroxy-7-oxo-5-Cholestenoic acid-d_3 is slightly soluble in ethanol.

Description

3β-hydroxy-7-oxo-5-Cholestenoic acid is a metabolite of the oxysterol 7-keto cholesterol (Item No. 16339).[1] It is formed from 7-keto cholesterol by the cytochrome P450 (CYP) isoform CYP27A1. Plasma levels of 3β-hydroxy-7-oxo-5-cholestenoic acid are increased in a rat model of liver injury induced by carbon tetrachloride.[2]

References

1. Heo, G.-Y., Bederman, I., Mast, N., *et al.* Conversion of 7-ketocholesterol to oxysterol metabolites by recombinant CYP27A1 and retinal pigment epithelial cells. *J. Lipid Res.* **52(6)**, 1117-1127 (2011).
2. Xu, S.-Y., Zhang, Y., Han, T., *et al.* Ultra-performance liquid chromatography quadrupole time-of-flight mass spectrometry-based plasma metabolomics study of hepatoprotective effect of cuscutae semen on CCl_4 -induced liver injury model of rats. *Biomed. Chromatogr.* **36(12)**, e5489 (2022).

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
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