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Produktinformation

- Forschungsprodukte & Biochemikalien
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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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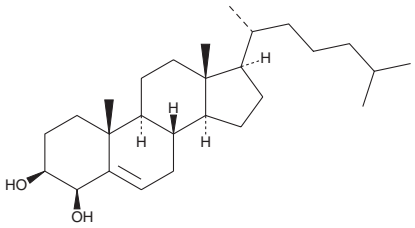
PRODUCT INFORMATION

4β-hydroxy Cholesterol

Item No. 19518

CAS Registry No.:	17320-10-4
Formal Name:	cholest-5-ene-3β,4β-diol
MF:	$C_{27}H_{46}O_2$
FW:	402.7
Purity:	≥95%
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

4β-hydroxy Cholesterol is supplied as a crystalline solid. A stock solution may be made by dissolving the 4β-hydroxy cholesterol in the solvent of choice. 4β-hydroxy Cholesterol is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide, which should be purged with an inert gas. The solubility of 4β-hydroxy cholesterol in these solvents is approximately 20, 0.1, and 2 mg/ml, respectively.

4β-hydroxy Cholesterol is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, 4β-hydroxy cholesterol should first be dissolved in ethanol and then diluted with the aqueous buffer of choice. 4β-hydroxy Cholesterol has a solubility of approximately 0.3 mg/ml in a 1:2 solution of ethanol:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

4β-hydroxy Cholesterol is a major oxysterol cholesterol metabolite and a precursor in the synthesis of bile acids that is found in human circulation.[1] It is formed from cholesterol by the cytochrome P450 (CYP) isoforms CYP3A4 and CYP3A5.[1] 4β-hydroxy Cholesterol has an unusually long half-life in plasma (~60 hours) as a result of slow elimination, particularly due to a slow rate of 7α-hydroxylation, which is the rate-limiting step for further conversion into bile acids.

References

1. Dicfalusy, U., Kanebratt, K.P., Bredberg, E., *et al.* 4β-hydroxycholesterol as an endogenous marker for CYP3A4/5 activity. Stability and half-life of elimination after induction with rifampicin. *Br. J. Clin. Pharmacol.* **67(1)**, 38-43 (2009).

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