

Product Data Sheet

Product Name: Norhyodeoxycholic Acid

Cat. No.: GC46187

Chemical Properties

Cas. No. 77518-23-1

SMILES C[C@H](CC(O)=O)[C@@]1([H])CC[C@@]2([H])[C@]3([H])C[C@H](O)[C@]4([H])C[C@H](O)CC[C@]4(C)[C@@]3([H])CC[C@@]21C

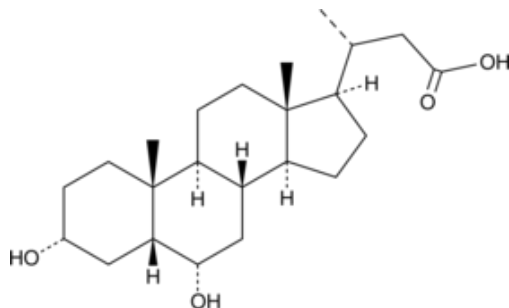
Formula C₂₃H₃₈O₄ M.Wt 378.6

Solubility DMF: 30mg/mL, DMF:PBS (pH 7.2) Storage Store at -20°C
(1:1): 0.5mg/mL, DMSO:
20mg/mL, Ethanol: 20mg/mL

General For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the tips ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Evaluation sample solution : ship with blue ice All other available size: ship with RT, or Condition blue ice upon request.

Structure



Background

Norhyodeoxycholic acid (NHDCA) is a synthetic bile acid and a derivative of hyodeoxycholic acid. 1,2 NHDCA is an intermediate in the synthesis of 3β-sulfoxy-7β-hydroxy-24-nor-5-cholen-23-oic acid, which has been used as an internal standard for the quantification of δ5-bile acid conjugates that have been identified in patients with Niemann-Pick disease type C1.3

[1. Schteingart, C.D., and Hofmann, A.F. Synthesis of 24-nor-5β-cholan-23-oic acid derivatives: A convenient and efficient one-carbon degradation of the side chain of natural bile acids. J. Lipid Res. 29(10), 1387-1395 (1988).|2. Une, M., and Hoshita, T. Natural occurrence and chemical synthesis of

Caution: Product has not been fully validated for medical applications. For research use only.

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bile alcohols, higher bile acids, and short side chain bile acids. Hiroshima J. Med. Sci. 43(2), 37-67 (1994).|3. Kakiyama, G., Muto, A., Shimada, M., et al. Chemical synthesis of 3 β -sulfooxy-7 β -hydroxy-24-nor-5-cholenoic acid: An internal standard for mass spectrometric analysis of the abnormal δ 5-bile acids occurring in Niemann-Pick disease. Steroids 74(9), 766-772 (2009).

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