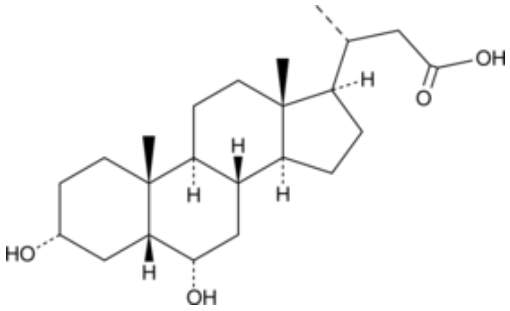
Product Data Sheet

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) (1:1): 0.5mg/mL,DMSO: 20mg/mL,Ethanol: 20mg/mL	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20°C for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or 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-sulfooxy-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

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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 3β-sulfooxy-7β-hydroxy-24-nor-5-cholenoic acid: An internal standard for mass spectrometric analysis of the abnormal δ5-bile acids occurring in Niemann-Pick disease. Steroids 74(9), 766-772 (2009).

Caution: Product has not been fully validated for medical applications. For research use only.
Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com
Address: 10292 Central Ave. #205, Montclair, CA, USA