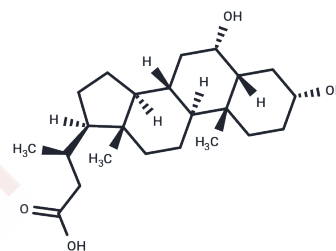


## Norhyodeoxycholic Acid

## Chemical Properties

CAS No. :	77518-23-1
Formula:	C <sub>23</sub> H <sub>38</sub> O <sub>4</sub>
Molecular Weight:	378.553
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



## Biological Description

Description	Norhyodeoxycholic acid (NHDCA) is a synthetic bile acid and a derivative of hyodeoxycholic acid. 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
Targets(IC50)	Others

## Solubility Information

Solubility	DMF: 30 mg/mL (79.25 mM), Sonication is recommended. Ethanol: 20 mg/mL (52.83 mM), Sonication is recommended. DMSO: 20 mg/mL (52.83 mM), Sonication is recommended. DMF:PBS (pH 7.2) (1:1): 0.5 mg/mL (1.32 mM), Sonication is recommended. ( < 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6417 mL	13.2083 mL	26.4166 mL
5 mM	0.5283 mL	2.6417 mL	5.2833 mL
10 mM	0.2642 mL	1.3208 mL	2.6417 mL
50 mM	0.0528 mL	0.2642 mL	0.5283 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

- Schteingart, C.D., and Hofmann, A.F. Synthesis of 24-nor-5 $\beta$ -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).
- Une, M., and Hoshita, T. Natural occurrence and chemical synthesis of bile alcohols, higher bile acids, and short side chain bile acids. *Hiroshima J. Med. Sci.* 43(2), 37-67 (1994).
- Kakiyama, G., Muto, A., Shimada, M., et al. Chemical synthesis of 3 $\beta$ -sulfooxy-7 $\beta$ -hydroxy-24-nor-5-cholenoic acid: An internal standard for mass spectrometric analysis of the abnormal  $\delta$ 5-bile acids occurring in Niemann-Pick disease. *Steroids* 74(9), 766-772 (2009).

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