

## Product Data Sheet

Product Name: Ursocholic Acid-d<sub>4</sub>

Cat. No.: GC49662

### Chemical Properties

Cas. No. N/A

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

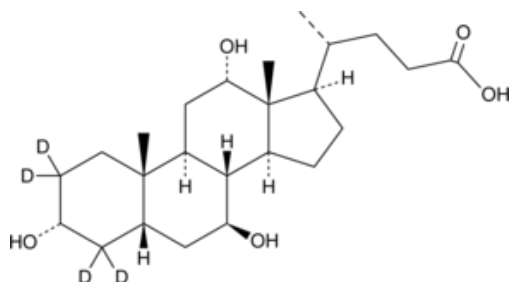
Formula C<sub>24</sub>H<sub>36</sub>D<sub>4</sub>O<sub>5</sub> M.Wt 412.6

Solubility DMSO: soluble Storage -20°C

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

Ursocholic acid-d<sub>4</sub> (UCA-d<sub>4</sub>) is intended for use as an internal standard for the quantification of UCA by GC- or LC-MS. UCA is a bile acid and the 7β-hydroxyepimer of cholic acid .<sup>1</sup> Dietary administration of UCA (0.25%) decreases gallbladder cholesterol, phospholipid, and bile acid levels and the occurrence of gallstones in male mice fed a lithogenic diet.

1. Uchida, K., Akiyoshi, T., Igmi, H., et al. Differential effects of ursodeoxycholic acid and ursocholic acid on the formation of biliary cholesterol crystals in mice. *Lipids* 26(7):526-530 (1991)

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

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