Taurodeoxycholic Acid (sodium salt)
Item No. 15935

CAS Registry No.: 1180-95-6
Formal Name: 2-[(3α,5β,12α)-3,12-dihydroxy-24-oxocholan-24-yl]amino]-ethanesulfonic acid, monosodium salt
Synonym: STDC
MF: C26H44NO6S • Na
FW: 521.7
Purity: ≥95%
Stability: ≥2 years at -20°C
Supplied as: A crystalline solid

Laboratory Procedures
For long term storage, we suggest that taurodeoxycholic acid (sodium salt) be stored as supplied at -20°C. It should be stable for at least two years.

Taurodeoxycholic acid (sodium salt) is supplied as a crystalline solid. A stock solution may be made by dissolving the taurodeoxycholic acid (sodium salt) in the solvent of choice. Taurodeoxycholic acid (sodium salt) is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide, which should be purged with an inert gas. The solubility of taurodeoxycholic acid (sodium salt) in these solvents is approximately 2, 20, 25 mg/ml, respectively.

Further dilutions of the stock solution into aqueous buffers or isotonic saline should be made prior to performing biological experiments. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. Organic solvent-free aqueous solutions of taurodeoxycholic acid (sodium salt) can be prepared by directly dissolving the crystalline solid in aqueous buffers. The solubility of taurodeoxycholic acid (sodium salt) in PBS, pH 7.2, is approximately 3 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Taurodeoxycholic acid is a bile salt formed in the liver by conjugation of deoxycholate with taurine. Within the gastrointestinal system this natural steroid stimulates both the production of bile by the liver and the flow of bile into the duodenum.1 Bile salts are naturally occurring biosurfactants that can be used to solubilize lipids and membrane-bound proteins and also as a vehicle to assist with vaccine delivery.2

References

Related Products
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