**PRODUCT INFORMATION**

**Taurohyodeoxycholic Acid (sodium salt)**  
*Item No. 21956*

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**CAS Registry No.:** 38411-85-7  
**Formal Name:** 2-[[3α,5β,6α]-3,6-dihydroxy-24-o xocho lan-24-yl]amino]-ethanesulfonic acid, monosodium salt  
**Synonyms:** Taurine Hyodeoxycholate, THDCA  
**MF:** C_{26}H_{44}NO_{6}S • Na  
**FW:** 521.7  
**Purity:** ≥95%  
**Supplied as:** A crystalline solid  
**Storage:** -20°C  
**Stability:** ≥2 years

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*Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.*

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**Laboratory Procedures**

Taurohyodeoxycholic acid (THDCA) (sodium salt) is supplied as a crystalline solid. A stock solution may be made by dissolving the THDCA (sodium salt) in the solvent of choice, which should be purged with an inert gas. THDCA (sodium salt) is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF). The solubility of THDCA (sodium salt) in ethanol and DMSO is approximately 20 mg/ml and approximately 30 mg/ml in DMF.

THDCA (sodium salt) is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, THDCA (sodium salt) should first be dissolved in DMF and then diluted with the aqueous buffer of choice. THDCA (sodium salt) has a solubility of approximately 0.5 mg/ml in a 1:1 solution of DMF:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

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**Description**

THDCA is a taurine-conjugated form of the secondary bile acid hyodeoxycholic acid (Item No. 20294).\(^1\) THDCA decreases the size and weight of human gallstones in vitro. It increases bile flow, biliary cholesterol secretion, and biliary lipid secretion in rats.\(^2\) Co-administration of THDCA with taurochenodeoxycholic acid (TCDCA; Item No. 20275) prevents TCDCA-induced hepatotoxicity, increasing bile flow as well as biliary acid and phospholipid secretion in rats.\(^3\) THDCA also reduces myeloperoxidase activity, expression of TNF-α and IL-6, and colonic damage in a mouse model of TNBS-induced ulcerative colitis.\(^4\)

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**References**