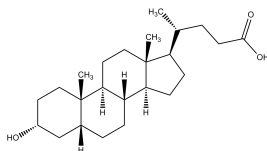


**PRODUCT: Lithocholic acid****ALTERNATE NAME:** 3 $\alpha$ -Hydroxy-5 $\beta$ -cholan-24-oic acid, 3 $\alpha$ -Hydroxy-5 $\beta$ -cholanic acid, 5 $\beta$ -Cholan-24-oic acid-3 $\alpha$ -ol; LCA**CATALOG #:** 2187-1G, 5G**AMOUNT:** 1 g, 5 g**STRUCTURE:****MOLECULAR FORMULA:** C<sub>24</sub>H<sub>40</sub>O<sub>3</sub>**MOLECULAR WEIGHT:** 376.57**CAS NUMBER:** 434-13-9**APPEARANCE:** White to off-white solid**SOLUBILITY:** DMSO or EtOH**PURITY:**  $\geq$ 97% by TLC**STORAGE:** Store at -20 °C. Protect from air and light**DESCRIPTION:** Lithocholic acid (LCA) is a hydrophobic secondary bile acid that is primarily formed in the intestine by the bacterial 7- $\alpha$  dehydroxylation of chenodeoxycholic acid. Acts as a detergent to solubilize fats for absorption. Known to display both carcinogenic and apoptotic activities. Also binds to the p53 binding sites of both MDM2 and MDM4 with a five-fold preference for MDM4.**REFERENCE:** Vogel, S.M., *et al.* (2012). *Proc. Natl. Acad. Sci. USA* **109**, 16906-16910.**HANDLING:** Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.**RELATED PRODUCTS:**

ASB-14 (Cat. No. 1738-5G, 25G)

ASB-16 (Cat. No. 2136-5G, 25G)

CHAPS, High Purity (Cat. No. 1545-10G, 50G, 500G, 1 Kg)

Digitonin, Water-Soluble (Cat. No. 2081-100, 250, 1000)

EZSolution™ Digitonin (Cat. No. 2082-1)

NP-40 Substitute Detergent, MegaPure™ 10% Solution (Cat. No. 2127-50, 100, 500)

Octyl- $\beta$ -D-glucopyranoside (Cat. No. 1646-5G, 25G, 50G)NP-40 (10% Solution in H<sub>2</sub>O) (Cat. No. 2111-100)SDS Solution (10% Solution in H<sub>2</sub>O) (Cat. No. 2102-100)

Sulfobetaine 3-16 (Cat. No. 1777-5G, 25G)

Triton X-100 (10% Solution in H<sub>2</sub>O) (Cat. No. 2104-100)

Triton X-100, MegaPure™ Detergent, 10% Solution (Cat. No. 2124-50, 100, 500)

Triton X-114, MegaPure™ Detergent, 10% Solution (Cat. No. 2137-50, 100, 500)

Tween® 20 (10% Solution in H<sub>2</sub>O) (Cat. No. 2111-100)

Tween® 20, MegaPure™, Detergent, 10% Solution (Cat. No. 2125-50, 100, 500)

**USAGE:** **FOR RESEARCH CH USE ONLY! Not to be used in humans**