



## Product Information

**Product ID** U6873

**CAS No.** 128-13-2

**Chemical Name** (3 $\alpha$ ,5 $\beta$ ,7 $\beta$ )-3,7-Dihydroxycholan-24-oic acid

**Synonym** Ursodiol, Actigall, Delursan, Desol, Litursol, Peptarom, Urdes, Ursolfalk, Ursolvan

**Formula** C<sub>24</sub>H<sub>40</sub>O<sub>4</sub>

**Formula Wt.** 392.57

**Melting Point** 203° C

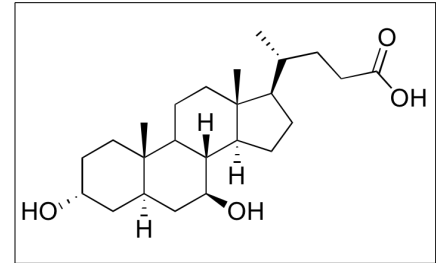
**Purity**  $\geq$ 98%

**Solubility** Insoluble in water. Soluble in ethanol. Slightly soluble in chloroform.

**Store Temp** Ambient

**Ship Temp** Ambient

**Description** Ursodeoxycholic acid is an endogenous secondary bile acid produced by bacterial metabolism of bile acids in the intestines. Ursodeoxycholic acid decreases cholesterol absorption, dissolves gallstones, and treats cirrhosis and other liver diseases. This compound exhibits immunosuppressive, antioxidative, hepatoprotective, anticancer, and gastrointestinal motility modulating activities. In animal models, ursodeoxycholic acid decreases spleenocyte proliferation and levels of IL-2, L-6, and IFN- $\gamma$ , increases levels of IL-10, and prevents allograft rejection. In other animal models, this compound increases levels of glutathione and decreases levels of malondialdehyde, myeloperoxidase, and ROS. In colon cancer cells, ursodeoxycholic acid inhibits cellular proliferation and induces apoptosis; similarly, it also induces differentiation, senescence, and HDAC6-dependent hypoacetylation. In other cancer models, this compound inhibits telomerase and may exhibit chemopreventive potential. In vivo, ursodeoxycholic acid decreases gastrointestinal transit time and increases gastric emptying rates.



**Bulk quantities available upon request**

Product ID	Size
U6873	1 g
U6873	5 g
U6873	25 g

**References** Zhang Q, Nakaki T, Iwami D, et al. Induction of regulatory T cells and indefinite survival of fully allogeneic cardiac grafts by ursodeoxycholic acid in mice. *Transplantation*. 2009 Dec 27;88(12):1360-70. PMID: 20029332.

El-Sherbiny GA, Taye A, Abdel-Raheem IT. Role of ursodeoxycholic acid in prevention of hepatotoxicity caused by amoxicillin-clavulanic acid in rats. *Ann Hepatol*. 2009 Apr-Jun;8(2):134-40. PMID: 19502657.

Akare S, Jean-Louis S, Chen W, et al. Ursodeoxycholic acid modulates histone acetylation and induces differentiation and senescence. *Int J Cancer*. 2006 Dec 15;119(12):2958-69. PMID: 17019713.

Colecchia A, Mazzella G, Sandri L, et al. Ursodeoxycholic acid improves gastrointestinal motility defects in gallstone patients. *World J Gastroenterol*. 2006 Sep 7;12(33):5336-43. PMID: 16981264.

**Caution:** This product is intended for laboratory and research use only. It is not for human or drug use.