



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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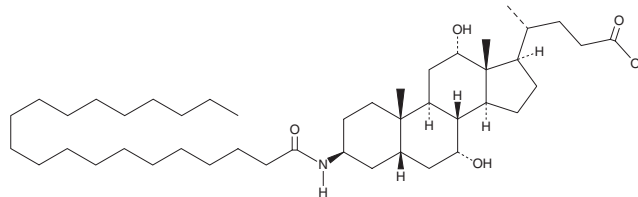
# PRODUCT INFORMATION



## Aramchol

Item No. 22478

**CAS Registry No.:** 246529-22-6  
**Formal Name:** (3 $\beta$ ,5 $\beta$ ,7 $\alpha$ ,12 $\alpha$ )-7,12-dihydroxy-3-[(1-oxoeicosyl)amino]-cholan-24-oic acid  
**Synonym:** Arachidyl Amido Cholanoic Acid  
**MF:** C<sub>44</sub>H<sub>79</sub>NO<sub>5</sub>  
**FW:** 702.1  
**Purity:**  $\geq$ 95%  
**Supplied as:** A crystalline solid  
**Storage:** -20°C  
**Stability:**  $\geq$ 2 years



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

### Laboratory Procedures

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

Aramchol is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, aramchol should first be dissolved in DMF and then diluted with the aqueous buffer of choice. Aramchol 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.

### Description

Aramchol, also known as arachidyl amido cholanoic acid, is a conjugate of arachidic acid (Item No. 9000339) and cholic acid (Item No. 20250).<sup>1</sup> It reduces *ex vivo* cholesterol crystallization in native human bile and dissolves pre-formed cholesterol crystals in a dose-dependent manner. *In vivo*, aramchol completely prevents the formation of cholesterol crystals and gallstones in mice fed a lithogenic, high-fat diet. It also prevents lithogenic, high-fat diet-induced fatty liver in mice, rats, and hamsters.<sup>2</sup> Formulations containing aramchol have been investigated clinically for the treatment of non-alcoholic fatty liver disease (NAFLD).<sup>3</sup>

### References

1. Gilat, T., Leikin-Frenkel, A., Goldiner, I., *et al.* Arachidyl amido cholanoic acid (Aramchol) is a cholesterol solubilizer and prevents the formation of cholesterol gallstones in inbred mice. *Lipids* **36(10)**, 1135-1140 (2001).
2. Gilat, T., Leikin-Frenkel, A., Goldiner, I., *et al.* Prevention of diet-induced fatty liver in experimental animals by the oral administration of a fatty acid bile acid conjugate (FABAC). *Hepatology* **38(2)**, 436-442 (2003).
3. Safadi, R., Konikoff, F.M., Mahamid, M., *et al.* The fatty acid-bile acid conjugate Aramchol reduces liver fat content in patients with nonalcoholic fatty liver disease. *Clin. Gastroenterol. Hepatol.* **12(12)**, 2085-2091 (2014).

#### WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

#### SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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