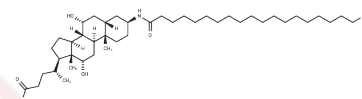


## Aramchol

## Chemical Properties

CAS No. :	246529-22-6
Formula:	C44H79NO5
Molecular Weight:	702.1
Storage:	Store at low temperature Powder: -20°C for 3 years   In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



## Biological Description

Description	Aramchol (C20-FABAC), also known as arachidyl amido cholanoic acid, is a conjugate of arachidic acid and cholic acid. It reduces ex vivo cholesterol crystallization in native human bile and dissolves pre-formed cholesterol crystals in a dose-dependent manner.
Targets(IC50)	Others, Stearoyl-CoA Desaturase (SCD)
In vivo	Three months' administration of the fatty acid-bile acid conjugate Aramchol significantly reduces liver fat content in patients with NAFLD. The reduction in liver fat content occurred in a dose-dependent manner and was associated with a trend of metabolic improvements, indicating that Aramchol might be used for the treatment of fatty liver disease[1].
Animal Research	Performed a randomized, double-blind, placebo-controlled trial of 60 patients with biopsy-confirmed NAFLD (6 with nonalcoholic steatohepatitis) at 10 centers in Israel. Patients were given Aramchol (100 or 300 mg) or placebo once daily for 3 months (n = 20/group). The main end point was the difference between groups in the change in liver fat content according to magnetic resonance spectroscopy. The secondary end points focused on the differences between groups in alterations of liver enzyme levels, levels of adiponectin, homeostasis model assessment scores, and endothelial function[1].

## Solubility Information

Solubility	DMSO: 53.33 mg/mL (75.96 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween-80+45% Saline: 2.5 mg/mL (3.56 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

### Preparing Stock Solutions

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	1mg	5mg	10mg
1 mM	1.4243 mL	7.1215 mL	14.243 mL
5 mM	0.2849 mL	1.4243 mL	2.8486 mL
10 mM	0.1424 mL	0.7121 mL	1.4243 mL
50 mM	0.0285 mL	0.1424 mL	0.2849 mL

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Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

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[J]. *Clinical Gastroenterology and Hepatology*, 2014, 12(12):2085-2091.e1.

Xie Y, Zhang L, Wang L, et al. EphB1 promotes the differentiation and maturation of dendritic cells in non-small cell lung cancer. *Cancer Letters*. 2023: 216567.

Eshraghian A . Current and emerging pharmacological therapy for non-alcoholic fatty liver disease[J]. *World Journal of Gastroenterology*, 2017, 23(42):7495-7504.

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