Table S1 Composition of standard Lieber-DeCarli liquid diet used in this study.

Ingredient	Control diet	Ethanol diet
Casein	41.4	41.4
L-cystine	0.5	0.5
DL-methionine	0.3	0.3
Corn oil	8.5	8.5
Olive oil	28.4	28.4
Safflower oil	2.7	2.7
Maltose dextrin	115.2	25.6
Cellulose	10	10
Mineral mix	8.75	8.75
Vitamin mix	2.5	2.5
Choline bitartrate	0.53	0.53
Xanthan gum	3	3
Ethanol	0	48

Notes:

Unit: kcal L-1; The basal diet was formulated and supplied form Diets Inc. (Bethlehem, PA, USA) according to the recommendations of the AIN.

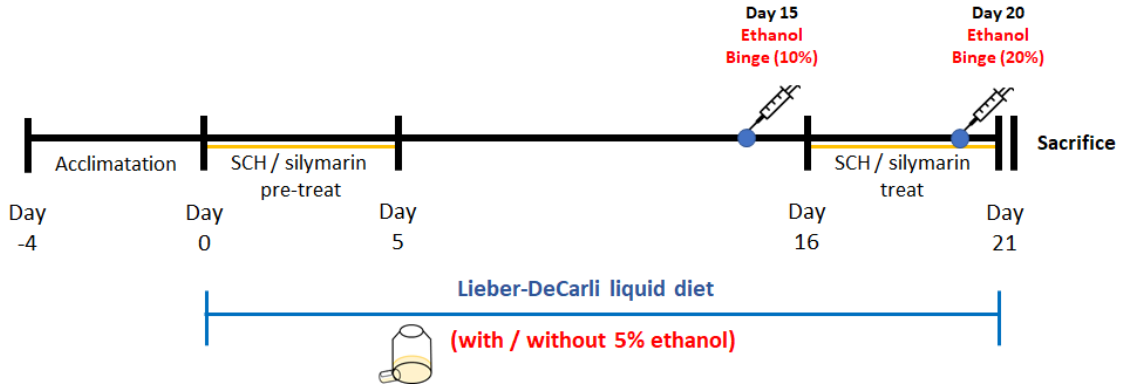

Figure S1 Experimental schemes of alcohol-induced liver injury model in C57BL/6J mice (NIAAA model). Normal group (pair-fed, PF) did not consume alcohol but were pair-fed the same calories of Lieber-DeCarli (LCD) diet. Mice in alcohol-feeding group (AF) and sample treatment groups (AF+SCH, AF+PC) received ethanol containing (5%, w/w) LDC diet for indicated periods. 10% ethanol binge was orally injected after 15 days from initiation of this experiment. Sample treatment groups were administrated 100 mg/kg body weight SCH or 50 mg/kg body weight silymarin by oral gavage once a day for 10 days, respectively. 9 h before the mice sacrifice, 20% ethanol binge was given to induce severe damage.