

AASLD Nov. 12-15, 2021 ASC42, a Novel Non-steroidal FXR Agonist, Demonstrates a Normal Cholesterol Profile and Lack of Pruritus at Therapeutic Doses in a 14-day Phase I Randomized, **Double-blind, Placebo Controlled Study in Healthy Volunteers**

DIGITAL EXPERIENCE

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placebo), divided as follows:

Gannex Pharma Co., Ltd

INTRODUCTION

Nonalcoholic fatty liver disease (NAFLD) is a condition in which fat builds up in the liver. Nonalcoholic steatohepatitis (NASH), the more severe form of NAFLD, is associated with inflammation and hepatocyte damage, and can lead to cirrhosis and hepatocellular carcinoma. The prevalence of NASH is alarmingly growing. Currently there is no approved treatment for NASH.

Farnesoid X receptor (FXR) agonists can reduce steatosis. inflammation, and improve fibrosis, and are the most advanced class of drugs in development for the treatment of NASH. ASC42 is a potent, orally available, non-steroidal FXR agonist.

Here we present the results of safety, tolerability, pharmacokinetics (PK), and pharmacodynamics (PD), from a first-in-human (FIH) study following single- and multipleascending doses (SAD and MAD) and food effect in healthy volunteers (HVs), (NCT04679129)

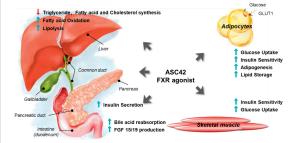


Figure 1: MoA of the FXR agonist, ASC42, against NASH

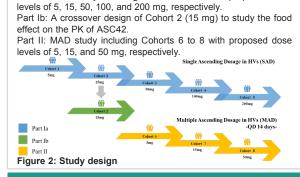


To evaluate the safety and tolerability of ASC42.

To establish Phase II human therapeutic doses of ASC42 based on PD biomarkers of 7q-hvdroxy-4-cholesten-3-one (C4) and fibroblast growth factor 19 (FGF19).

To investigate food effect on ASC42 exposure.

AASID



METHODS

This was a 2-part. Phase 1. FIH. double-blind. placebo-controlled

study, consisting of 8 cohorts of 8 subjects each (6 active: 2

Part la: SAD study including Cohorts 1 to 5 with proposed dose

HIGHLIGHTS

· Both animal models and human PD biomarkers data suggest that 15 mg QD is one of the human therapeutic doses of ASC42.

 No pruritus observed during ASC42 15 mg QD treatment for 14 days

- ASC42 15 mg QD treatment for consecutive 14 days showed a significant increase of FGF19 level (1780% of baseline) and suppression of C4 level to a reduction of 91%.
- · Mean LDL-C and HDL-C values remained within normal limits and there were no treatment-emergent ALT and AST elevations with 5 mg, 15 mg and 50 mg QD of ASC42 for 14 days.
- ASC42 was safe and generally well tolerated when administered as single doses up to 200 mg and multiple daily doses for 14 days up to 50 mg.

• AUC at 5, 15 and 50 mg on day 14 was 196, 1752 and 10970 ng.h/mL, respectively, indicating the exposure changed in an overdose proportional manner with minimal food effect.

| | Part I (SAD) | | | | | | Part II (MAD) | | | |
|-----------------------------------|--------------------------------------|---------------------------------------|---------------------------------------|--|--|-------------------------------|--------------------------------------|---------------------------------------|---------------------------------------|------------------------------|
| n (%) | Cohort 1 ASC42 5 mg (N = 6) | Cohort 2 ASC42 15 mg (N = 6) | Cohort 3 ASC42 50 mg (N = 6) | Cohort 4 ASC42 100 mg (N = 6) | Cohort 5 ASC42 200 mg (N = 6) | Pooled Placebo (N = 10) | Cohort 6 ASC42 5 mg (N = 6) | Cohort 7 ASC42 15 mg (N = 6) | Cohort 8 ASC42 50 mg (N = 7) | Pooled Placebo (N = 6) |
| Any TEAE | 1 (16.7) | 2 (33.3) | 0 | 0 | 3 (50.0) | 1 (10.0) | 1 (16.7) | 0 | 6 (85.7) | 2 (33.3 |
| mild | 1 (16.7) | 2 (33.3) | 0 | 0 | 2 (33.3) | 1 (10.0) | 0 | 0 | 2 (28.6) | 2 (33.3 |
| moderate | 1 (16.7) | 0 | 0 | 0 | 1 (16.7) | 0 | 1 (16.7) | 0 | 3 (42.9) | 0 |
| severe | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 (28.6) | 0 |
| life threatening | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| fatal | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Any SAE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 (14.3) | 0 |
| Any TEAE related to study drug | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 (57.1) | 1 (16.7 |
| Any TEAE leading to withdrawal | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 (14.3) | 0 |
| Any TEAE leading to death | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

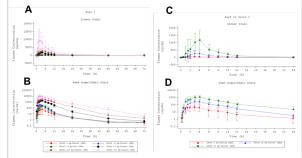


Figure 3: Mean (±SD) ASC42 plasma concentration versus time for Part I SAD as shown in A (linear) and B (semilogarithmic), and for Part II MAD as shown in C (linear) and D (semi-logarithmic).

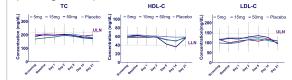
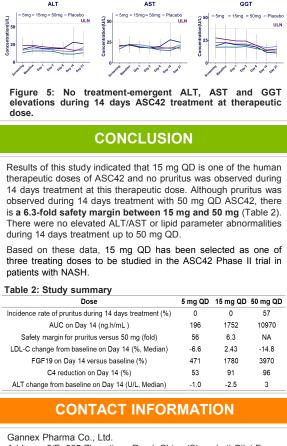


Figure 4: Total Cholesterol (TC), HDL-C and LDL-C remained within normal limits during 14 days ASC42 treatment.

GANNEX

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RESULTS