Reviewer's report

Title: A novel 11beta-hydroxysteroid dehydrogenase type1 inhibitor CNX-010-49 improves hyperglycemia, lipid profile and reduces body weight in diet induced obese C57B6/J mice with a potential to provide cardio protective benefits

Version: 3 Date: 25 June 2014

Reviewer: Matthew Whittaker

Reviewer's report:

The authors have adequately addressed many of the points raised in the initial review. Some minor essential revisions are included below.

Minor Essential Revisions:

(1) The description of the statistical analysis that is included in your figure legends should just say "Statistical comparison was conducted by One-way ANOVA followed by Dunnett's test"

(2) The statistical analysis for figures 5A & B, 7A, and 8A is still not appropriate. The experiments were conducted with a repeated measures design (e.g. animals from three separate treatment groups were treated over the course of 10 weeks and measurements were taken repeatedly from each animal at intervals over this time period). Therefore treating each time point as an 'independent' experiment is not an appropriate approach.

Level of interest: An article whose findings are important to those with closely related research interests

Quality of written English: Acceptable

Statistical review: Yes, and I have assessed the statistics in my report.

Declaration of competing interests:

Disclaimer: The views expressed in this review are those of the reviewer alone and do not necessarily represent the views of the U.S. Food and Drug Administration