Reviewer’s report

Title: Propofol inhibits the release of interleukin-6, 8 and tumor necrosis factor-α correlating with high-mobility group box 1 expression in lipopolysaccharides-stimulated RAW 264.7 cells

Version: 0 Date: 13 Sep 2017

Reviewer: Martin Kaczocha

Reviewer's report:

This is an interesting manuscript that adds to the literature linking propofol with anti-inflammatory effects. The study is well designed but I have some comments that need to be addressed prior to publication.

1. Representative western blots should be included for all conditions that were analyzed (e.g., Fig. 1A, 1B, etc.) rather than a single blot in Figure 2B.

2. In Figure 1, the LPS intervention produces different "gray" values in the subfigures. For example, in Fig. 1D (and Fig. 2A) the values are ~70,000 while in Fig. 1E they are ~60,000. The authors should clarify whether these were derived from different experimental groups. This is important because the low dose propofol reduces the "gray" values to ~60,000 and these are unlikely to be statistically different from the LPS intervention as reported in Fig. 1E.

3. Figure 3F, why is high dose group not significant?

4. Antibody vendors and catalog numbers should be included in the methods section.

5. Minor grammatical errors in the manuscript. There were multiple instances of the word "releases" being used incorrectly, and this should be changed to "release".

Are the methods appropriate and well described?
If not, please specify what is required in your comments to the authors.

Yes

Does the work include the necessary controls?
If not, please specify which controls are required in your comments to the authors.

Yes

Are the conclusions drawn adequately supported by the data shown?
If not, please explain in your comments to the authors.

Yes
Are you able to assess any statistics in the manuscript or would you recommend an additional statistical review?
If an additional statistical review is recommended, please specify what aspects require further assessment in your comments to the editors.

I am able to assess the statistics

Quality of written English
Please indicate the quality of language in the manuscript:

Needs some language corrections before being published

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