Reviewer’s report

Title: Investigation of Gastroprotective Effect of A Novel Dibromo Substituted Schiff Base Compound Against Ethanol-induced Acute Gastric Lesions in Rats.

Version: 0 Date: 04 Oct 2018

Reviewer: Marina Galvez-Peralta

Reviewer's report:

The authors describe the gastroprotective effects of a newly synthesized dibromo compound in rats. Although the reviewer acknowledge the hard work dedicated to this research projects, there are some comments/clarifications needed:

1. Please review the English in the manuscript, as well as typos (like the one in page 7, section 6.3 (umbers).

2. Methods: it is not clear for how long the rats are exposed to the compound. The authors said orally, does it mean with water? with the food? gavage?

3. Since the compound is shift base, and could be reactive, how do they assure the stability of the compound while administering to the animals? The authors use different buffers for administration/in vitro assays (tween, DMSO), is the compound stable?

4. Since some of the effects were not dose-dependent (Same effect for both of the concentrations) can authors measure AUC of the compound in blood?

5. The compound contains 2 atoms of Br, but the toxic effects were measured only after 1 dose. Can authors measure long-term effect (since prophylaxis of ulcers is a long term treatment)

6. The MTT assay contains too much DMSO(0.25%) and that concentration could compromise the membrane integrity.

7. The method of the gastric ulcer induction is confusion. For how long did the investigators treat the rats prior exposure to the acid? Or was it after acid exposure (It won't be preventive, but palliative then).

8. MTT assay is not clear if the DMSO was constant across the wells. Also, how many times the experiment was repeated? Or does the graph represent 1 experiment but using multiple wells?

9. The authors list on results "high" antioxidant properties, but comparing with Ascorbic acid is not that high. Please refer for including the word high, since it is misleading. In addition, have the authors tested whether or not the compound could chelate Fe in stead of doing a redox reaction?
10. Some of the histological sections are hard to see, could they provide an amplified copy?

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

No

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:

Not suitable for publication unless extensively edited

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