Qeios

Peer Review

Review of: "Unraveling the Sulfur Insulin Deformation Hypothesis: A Novel Therapeutic Avenue for Type 2 Diabetes"

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- The article is written well, but there are various suggestions; please apply and make the necessary changes.

- INTRODUCTION: It is presented well, stating the functions of sulphur and the disulphide bond, how it stabilizes the insulin structure, and other mechanisms.
- HYPOTHESIS: According to the hypothesis, only because of the abundance of organic sulphur leads to the improper formation of disulphide linkage, or is there any other reason which may resist or inhibit the oxidation process to form disulphide linkage? This statement should be explained properly.
- Moreover, the results presented in the article lack reports/clinical data. Simply presenting the numbers can't be accepted. In addition, if any ethical clearance is needed to present the data, then please provide the reference or study which was carried out on patients having high glucose levels by providing the MSM as a supplement.
- CONCLUSION: It should be changed accordingly.

- Rest, overall, is written well.
- Go through the relevant articles pertaining to Diabetes and its inhibitors.

1. Synthesis and Biological Activity Studies on Novel 3-(1-chloropiperidin-4-yl)-6-fluoro benzoisoxazole. *Res. J. Chem. Biol. Pharm. Chem. Sci.* 2014, 5(2), 873-880.
2. Recent Developments in the Synthesis of N- Heterocyclic Compounds as α-Amylase Inhibitors via In-Vitro and In-Silico Analysis: Future Drugs for Treating Diabetes. ChemistrySelect 2022, 7, e202201706 [IF: 1.9] https://doi.org/10.1002/slct.202201706

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Declarations

Potential competing interests: No potential competing interests to declare.