

Review of: "Design, Synthesis, and In-Silico Analysis of Thiazole-Embedded Schiff Base Derivatives for Breast Cancer Therapeutic Potential"

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Potential competing interests: No potential competing interests to declare.

Dear respected Editor,

The manuscript entitled: "Design, Synthesis, and In-Silico Analysis of Thiazole-Embedded Schiff Base Derivatives for Breast Cancer Therapeutic Potential" was reviewed. After reviewing this manuscript, it needs some modifications to become fit for publication. Specific comments are listed below:

- There are many typographical mistakes in the manuscript; please revise carefully to avoid confusing the reader. I
 mentioned below a few typographical mistakes
- 2. In the introduction (Thiazole, characterized by a five-membered ring containing four carbon atoms, one nitrogen atom, and one sulfur atom), please correct that thiazole has three carbons
- 3. (3-chloroacetic acetone) mentioned in the experimental section as compound 3, please correct the name of the compound to (3-chloroacetyl acetone)
- 4. In scheme-1, typographical mistake (4-5), correct to 4-6.
- 5. Also in scheme-1, specify each of TZ1-3 with which R group
- 6. I recommend that for each compound from TZ1-TZ3, please write the preparation method in detail for each molecule before stating its spectroscopic data. Elaborate on the weight, not only in mol, of each reactant, details of chromatographic solute percentage, etc.; as all those compounds are newly synthesized.
- 7. (Physical properties of ...) this is chemical properties, please correct.
- 8. For all the newly synthesized compounds, the mass spectrometry needs to be added to identify the correct mass of each molecule. Add both calculated and found mass data.
- 9. In the spectroscopic data of 3-6, there must be a confusion or typographical error. For example, the title for data of 5, then in the details, it's 6? (KBr, cm-1, 6). Please revise carefully.
- 10. Provide an elaborate supporting information document of all spectroscopic data, showing on the structure the label of each carbon as it was illustrated nicely in the spectroscopic data.
- 11. Did the authors try to synthesize TZ4-10 but did not succeed? Or is it in the literature? Or is it estimated by calculations? Provide an explanation.
- 12. In the case of only (TZ1-TZ3) being synthesized, not TZ1-10, the abstract needs to be revised as it is suggesting that



all TZ1-TZ10 were synthesized in this work

13. In results and discussion, typographical mistake (figure X) correct to figure 1

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