

Review of: "Investigation and Synthesis of Benzothiazole-Derived Schiff Base Ligand Against Mycobacterium tuberculosis"

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Potential competing interests: No potential competing interests to declare.

In general, I can comment that:

- 1.- Regarding the reaction yield, it is not mentioned whether it was obtained before or after purification.
- 2.- The approach through the molecular docking study is relevant and could be very close to said compounds.

Regarding the studies carried out for the identification of the synthesized compound:

- 1.- There is no description of the η - π^* transitions; it is advisable to comment on these transitions from the UV-Vis spectrum.
- 2.- It is not possible to correctly visualize the baseline in the FT-IR spectrum, and the probable absorption bands for the H-C=C bonds corresponding to aromatic compounds are not correctly appreciated. In addition, it is recommended to make the description in the following way: cm^{-1} .
- 3.- In the ^1H NMR analysis, the spectrum image is of low quality, and the peaks related to the hydrogen signals cannot be seen. The integration of the signals does not completely agree with the proposed structure; it is recommended to enlarge the areas and include the structure to identify the atoms directly related to the signals. A better description is requested in the elucidation.