

Review of: "Synthesis of 1, 2-Disubstituted Benzimidazoles at Ambient Temperature Catalyzed by 1-Methylimidazolium Tetrafluoroborate ([Hmim] BF₄) and Investigating Their Anti-ovarian Cancer Properties Through Molecular Docking Studies and Calculations"

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Potential competing interests: No potential competing interests to declare.

Title: Synthesis of 1, 2-Disubstituted Benzimidazoles at Ambient Temperature Catalyzed by 1-Methylimidazolium Tetrafluoroborate ([Hmim] BF₄) and Investigation of Their Anti-ovarian Cancer Properties Through Molecular Docking Studies and Calculations**General Comment:**

The authors present the **synthesis of 1, 2-disubstituted benzimidazoles at ambient temperature catalyzed by 1-methylimidazolium tetrafluoroborate ([Hmim] BF₄) and investigation of their anti-ovarian cancer properties through molecular docking studies and calculations**. The idea presented is good, but there is a need for revision. All grammatical errors should be corrected throughout the manuscript. Page and line settings should be proper. The authors should avoid spelling, typographical, as well as grammar mistakes.

Specific Comments

Title:

In the title, the authors mention ambient temperature, while in the reaction scheme, they mention room temperature.

The title is much elongated.

Introduction:

Authors should clearly state the problem in the introduction section.

Experimental:

Schematic presentation is not proper, i.e., Scheme.1.

Materials and Methods:

Provide a detailed explanation about the materials and procedures used for the experiments.

Results and Discussion:

Authors should provide advanced characterization data for all the synthesized compounds, including IR,¹H NMR, ¹³C NMR, HRMS, and elemental analysis. The authors should explain how the two products are separated and how reaction conditions affect the yields of the two products.

In the case of anti-cancer activity, explain whether the theoretical results match with the actual activity results or not.

Conclusion:

The conclusion should provide some insights.

References:

References should be arranged as per journal requirements.

Minor Comment:

Mention the application of the research properly.

Recommendation:

The manuscript requires revision for its acceptance.