

PEER-REVIEW REPORT

Name of journal: *World Journal of Cardiology*

Manuscript NO: 74001

Title: GRK5 is an essential co-repressor of the cardiac mineralocorticoid receptor and is selectively induced by finerenone

Provenance and peer review: Invited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 05457585

Position: Peer Reviewer

Academic degree: MD, MSc, PhD

Professional title: Assistant Professor

Reviewer's Country/Territory: Bangladesh

Author's Country/Territory: United States

Manuscript submission date: 2021-12-10

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-01-02 07:00

Reviewer performed review: 2022-01-13 01:40

Review time: 10 Days and 18 Hours

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Very good <input type="checkbox"/> Grade C: Good <input type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
Language quality	<input type="checkbox"/> Grade A: Priority publishing <input checked="" type="checkbox"/> Grade B: Minor language polishing <input type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
Conclusion	<input type="checkbox"/> Accept (High priority) <input type="checkbox"/> Accept (General priority) <input checked="" type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Re-review	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Peer-reviewer statements	Peer-Review: [<input type="checkbox"/>] Anonymous [<input checked="" type="checkbox"/>] Onymous Conflicts-of-Interest: [<input type="checkbox"/>] Yes [<input checked="" type="checkbox"/>] No
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SPECIFIC COMMENTS TO AUTHORS

Manuscript ID: 74001 Manuscript Title: GRK5 is an essential co-repressor of the cardiac mineralocorticoid receptor and is selectively induced by finerenone Manuscript Type: Basic Study Journal: World Journal of Cardiology Minor comments: The author appraised this manuscript by investigating potential differences between finerenone and eplerenone at engaging GRK5-dependent cardiac MR phosphorylation and subsequent blockade. However, your article is inadequately presented. Furthermore, there are many problems in the different sections as well. Although the article has scientific rigor, several minor flows need to be improved before publication. 1. The abstract section is unsuitable—no focus point in the abstract section. 2. Rewrite the conclusion (in the abstract) in a more straightforward form. 3. In conclusion, finerenone, but not eplerenone, induces GRK5-dependent cardiac MR inhibition, which underlies, at least in part, its higher potency and efficacy, compared to eplerenone, as an MRA in the heart. GRK5 acts as a co-repressor of the cardiac MR and is essential for efficient MR antagonism in the myocardium. Change this. 4. Authors are suggested to use the full form when used for the first time throughout the manuscript. 5. The introduction section is poorly written. Authors are suggested to develop the introduction section by adding the literature related to finerenone. 6. The introduction section looks concise. Try to include the existing research limitations also, how the present research unravels those limits. 7. Need to arrange the introduction section logically—few updated references cited in this section. 8. Aim of the study need to write in the last paragraph of the introduction section. 9. Material and methods are written without proper references. Need a logical flow of the writings with enough references. 10. Luciferase Reporter



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Activity Essay: Need reference. 11. Statistical Analyses: Need details. 12. The writing of results is good. Need to maintain a logical flow of the writings with the subtitles. 13. Many grammatically problematic sentences are in the results and discussion section, which must be checked and corrected precisely. 14. Figures presentation is up to mark. 15. Figure legends are self-explanatory. 16. The discussion is feeble. Please, include the data from other sources about related works. 17. A sound discussion includes principal, relationship, and generalizations supported by the results. 18. In the discussion, many concepts already reported in the introduction are repeated, so it is better to avoid unnecessary repetitions. 19. The conclusion needs to address future perspectives. 20. Novelty of the work should be added by the author in the conclusion section. 21. Spacing, punctuation marks, grammar, and spelling errors should be reviewed thoroughly. I found so many typos throughout the manuscript. 22. English is modest. The authors need to improve their writing style. In addition, the whole manuscript needs to be checked by native English speakers.

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Title: GRK5 is an essential co-repressor of the cardiac mineralocorticoid receptor and is selectively induced by finerenone

Provenance and peer review: Invited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 05249683

Position: Editorial Board

Academic degree: BSc, MSc, PhD

Professional title: Professor

Reviewer's Country/Territory: Egypt

Author's Country/Territory: United States

Manuscript submission date: 2021-12-10

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-01-22 07:27

Reviewer performed review: 2022-01-29 09:12

Review time: 7 Days and 1 Hour

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Very good <input type="checkbox"/> Grade C: Good <input type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
Language quality	<input checked="" type="checkbox"/> Grade A: Priority publishing <input type="checkbox"/> Grade B: Minor language polishing <input type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
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Peer-reviewer statements	Peer-Review: [<input checked="" type="radio"/>] Anonymous [<input type="radio"/>] Onymous Conflicts-of-Interest: [<input type="radio"/>] Yes [<input checked="" type="radio"/>] No
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SPECIFIC COMMENTS TO AUTHORS

The title reflect the scope of the study. It is well written and well expressed manuscript.
The figures are well illustrated, but can the authors show the importance of aldosterone in the schematic figure 5 ? In addition, what are the limitations of the study?