Dear reviewer expert 2,

Thank you very much for your positive feedback on our manuscript and for your insightful suggestions to further enhance its quality. We truly appreciate your recognition of our work, as well as your constructive guidance on improving our study and manuscript. Below, we provide a detailed response to your comments:

Comments and Suggestions for Authors

The manuscript is well done. The authors employ various methods to demonstrate the anti-inflammatory effects of Caffeic acid phenethyl ester (CAPE) in the intestinal tract. However, they could significantly improve their manuscript by incorporating morphological techniques. Additionally, the concurrent use of antibodies against inflammatory molecules, along with western blot analysis and immunohistochemistry, greatly enhances the scientific weight of their work.

Thank you for your thoughtful evaluation of our manuscript and the constructive suggestions to enhance its scientific depth. We deeply appreciate your recognition of our work and fully acknowledge the value of incorporating morphological techniques, western blot, and immunohistochemistry to validate anti-inflammatory effects. These methods indeed provide direct evidence of tissue-level and molecular changes, which are crucial for comprehensive mechanism studies.

However, due to the current research focus on transcriptomic profiling, gut microbiota analysis, and molecular docking (as highlighted in our study), we prioritized multi-omics integration to elucidate the systemic effects of CAPE. The transcriptomic data already reveal significant changes in inflammatory signaling pathways, while gut microbiota profiling and molecular docking supplement the findings by linking pancreatic secretion regulation and potential target interactions. Although morphological and antibody-based assays were not included in this work, we recognize their importance and plan to integrate them in future studies to further validate the observed effects at the tissue and protein levels.

We believe the existing multi-method approach still provides robust evidence for CAPE's anti-inflammatory mechanisms in zebrafish. Your suggestion has inspired us to consider more comprehensive validation strategies in subsequent research. Thank you again for your valuable input, which has helped us refine the manuscript's scientific narrative.

Comments on the Quality of English Language

The English should be evaluated by a mother language English reader.

Thank you for your attention to the English language in our manuscript. We have carefully revised the text to improve grammar, sentence structure, and readability, with all modifications highlighted in yellow for clarity.

We understand the importance of precise academic writing and have made every effort to ensure the manuscript meets publication standards. If you notice any areas that require further refinement, please let us know, and we will promptly address them.