Review of: "Inhibition Success of a Virtually Created Molecule: Pseudoeriocitrin and Femtomolar Inhibition"

Islam Abdellah[1]

1 North Carolina State University

Potential competing interests: No potential competing interests to declare.

1-Regarding the synthetic route of pseudoeriocitrin, have the authors considered any plausible strategies for its synthesis based on the structural modifications proposed in their study? Additionally, are there any known synthetic methodologies or chemical transformations that could be adapted to produce pseudoeriocitrin experimentally?

2-Could you elaborate on the rationale behind selecting multiple proteins for the docking studies with pseudoeriocitrin? Did the choice of proteins reflect specific biological targets or diverse protein families to assess the molecule's potential broad-spectrum activity?

3-In light of the observed femtomolar inhibitory activity of pseudoeriocitrin, have the authors investigated its selectivity towards the different proteins included in the study? Are there any plans to conduct additional analyses or experiments to evaluate the molecule's specificity and potential off-target effects?

4-It would be beneficial for readers to gain a comprehensive understanding of the protein-ligand interactions observed in the docking studies. Could the authors consider providing a table summarizing the key interactions between pseudoeriocitrin and each protein target, including details such as interacting amino acids, binding affinities, and any specific molecular features contributing to binding specificity?