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

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Potential competing interests: No potential competing interests to declare.

Dear editor,

Thanks for the opportunity to review the manuscript titled" Inhibition Success of a Virtually Created Molecule: Pseudoeriocitrin and Femtomolar Inhibition **".**

The manuscript draws up analysis of possible interactions with enzymes and proteins, using the*in silico* protein-ligand docking method. The objectives are stated clearly.

This paper can be accepted for publication in the Qeios journal**after minor revision.**

Feedback and suggestions for the authors:

1. The Abstract part needs to convey the innovation of the work.

2. The references should be homogenized; some references are not up to standard (pages, italics).

3. Throughout part : 3.1. Evaluation of possible interactions between pseudoeriocitrin and rat carnitine palmitoyl transferase 2 (CPT 2) there is no comparison with the literature, no reference to justify the assertions.

4. The same remarks apply to parts 3.2, 3.3, and 3.4.

5. If Pseudoeriocitrin's femtomolar inhibition value is due to a chemical reason, we think that this amazing inhibition ability may be due to the following properties:

1. The heterocyclic center structure has a planar geometry.
2. The core structure of the ligand (the combined cyclic structures in the center) is wide and consists of 4 rings.
3. Side chains attached to the core have hydroxyl groups or oxygen atoms.
4. Positioning of 3,4,5-trihydroxy-6-methyloxan-2-yl and 3,4-dihydroxyphenyl groups perpendicular to the core plane.
5. The center of the ligand is rigid in a wide area, and the side groups are connected to the heterocyclic center via sigma bonds.

Include a brief discussion and justifications?

6. Improve the conclusion; it must correspond to the objectives.

Sincerely yours,