Dear Franc Perdih,

I am pleased to receive your comments on the manuscript "Syntheses, Structures and Insulin-Like Activity of Two Oxidovanadium(V) Complexes with Similar Nicotinohydrazone Ligands". We have revised the manuscript in accord with the suggestions.

Sincerely yours,

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Reviewer A:

1.The crystalline structure of the complexes could be further discussed (hydrogen bonds, distances between planes, simulation of interaction with proteins, etc.)

Response: The crystalline structures of the complexes are further discussed.

2. In which solvent / mixture of solvents was the complex dissolved to be administered to mice?

Response: The complexes were administered as suspensions in 0.5% CMC.

3. How was the dose administered for this experiment determined?

Response: Group 1, normal control group: normal mice treated with 0.5% carboxymethyl cellulose (CMC). Groups 2 and 3, treated normal groups: normal mice treated with 20 mg V•kg–1 complexes. Group 4, diabetic control group: alloxan diabetic mice treated with 0.5% CMC. Groups 5-8, treated diabetic groups: alloxan diabetic mice treated with the complexes at doses of 10 and 20 mg V•kg–1 intragastric administration.

4. I suggest a test of the toxicity of the complexes by hematological, hepatic and renal determinations.

Response: We are sorry that we have not the experimental condition to determine the hematological, hepatic and renal toxicity of the complexes.

5. What would be a possible mechanism of action through which the obtained complexes manifest their antidiabetic activity?

Response: This is a preliminary work on the antidiabetic activity of the complexes. The mechanism is not clear with the current experimental data. The readers who are interested in this work can further this study.

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Reviewer B:

Manuscript presents the synthesis of two novel vanadium(V) complexes, XRD structural characterization and antidiabetic assay. Goal is clear and manuscript well written. Why authors prepared only two complexes? With ligands L1 and L2 there would be four combinations exacted [VOL1(HQ)], [VOL1(SAH)], [VOL2(HQ)], [VOL2(SAH)].

Response: We have tried to prepare all the complexes with the ligands, yet, only two complexes have been obtained with their single crystals. So, we reported two complexes.

Additional comments:

- Authors could include into Scheme 1 also structures of HQ and SAH.

Response: HQ and SAH ligands are included in Scheme 1.

- In section 2.1. there are missing data regarding apparatus for molar conductivity.

Response: The apparatus for molar conductivity is given in section 2.1.

- Elemental analysis should be reported on two decimal points (for example, not as 55.5% but as 55.55%)

Response: Corrected.

- Table 2 should be moved to Results and Discussion section.

Response: Table 2 has been moved to R & D.

- On page 6 it is written that complexes are soluble in DMF, DMSO, methanol, ethanol, and acetonitrile - what about the solubility in water? What was the solvent used for bioassay - water or water/DMSO or something else?

Response: The complexes are not soluble in water. For bioassay, the mice were intragastirc administrated with the complexes in 0.5% CMC.

- Figures 1-3 should be provided in color. Regarding the Figure 3 - it is not presented in reader friendly way - Platon is not the best graphical program for presenting supramolecular motifs, Mercury would be better. Also, it would be better not to present packing as such but selected patterns.

Response: Figures 1-2 have been corrected as color. Figure 3 is omitted.

- If possible make at least one curve in Figs. 4,5 in color.

Response: Corrected as color.

- Why no standard was used in bioassay, such as VOSO4 or some other?

Response: VOSO4 was assayed as comparison.

- Conclusion section is too short. It should contain at least six to eight lines of text.

Response: Conclusion is improved.

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