Reviewer's report

Title: Effects of JSOG-6 on protection against bone loss in ovariectomized mice through regulation of osteoblast differentiation and osteoclast formation

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Reviewer: Anne Blais

Reviewer's report:

This manuscript presents an interesting in vivo study showing that a traditional medicine can reduce bone loss. The in vitro study support that the effect is mediated by a stimulation of osteoblasts and an inhibition of osteoclasts. The in vitro studies showed a dose dependent effect. However the in vivo study the authors was not able to report a dose dependent effect for the concentration used.

There are too many tables and figures in the manuscript

Major Revisions

The authors indicate that JSOG-6 treatment improve dose dependently the trabecular bone structure however figure 1B and 1C do not present any significant difference between the 3 different concentrations of JSOG-6 for the different parameters evaluated.

The time at which the blood was collected for the measurement of the metabolic biomarkers should be indicated. The values for those parameters are drastically different 1 or 3 months after the OVX procedure.

In the discussion the authors should suppress the sentence that indicates that JSOG-6 rescue the deterioration of bone micro architecture because the design does not allow such an affirmation.

Minor Revisions

Table 1 should be discarded values are given in the text.

Figure 1 should be modified. Gain weight as function on time as compare to T0 and line should replace the histogram.

Values of figure2 should be presented in a table.

Level of interest: An article of importance in its field

Quality of written English: Acceptable

Statistical review: No, the manuscript does not need to be seen by a statistician.

Declaration of competing interests:
I declare that I have no competing interests