Author’s response to reviews

Title: Anti-inflammatory, analgesic and acute toxicity effects of fermented soybean

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Silvio Sosa, Ph.D. (Reviewer 3):

Abstract

Comment: Methods: The part on methods has been improved with some information but I suggest an improvement also from the linguistic point of view. In addition: the type of raw soybean extract has to be specified (i.e. aqueous extract); the term "concentration" for the in vivo study has to be changed with "dose" (also in other parts of the manuscript); the route of administration has to be reported also in the abstract.

Response: The methods section was rewritten and the specificity, dose and route of administration of the extract were added into this section.

Comment: Results: the concentration and the dose of the reference compounds have to be reported.

Response: Dosage of acetyl salicylic acid and concentration of the curcumin were added.
Background
Comment: I suggest to specify that SBE was an aqueous extract.
Response: SBE was specify as Soybean aqueous extract in the background and abbreviation sections.

Methods
In vitro anti-inflammatory activity
Comment: Page 7, line 140: The sentence has to be revised.
Response: Authors thank the reviewer for pointing out the sentence error. We have rewritten the sentence to “The in vitro anti-inflammatory effect of SBE and NESTE were quantified by comparing the inhibition of extracellular secretion of nitric oxide (NO), IL-1β and TNF-α of LPS activated RAW264.7 cells after treated with 2.5 and 5 mg/mL of SBE or NESTE.”

Results
LPS-induced NO production in RAW 264.7 cells
Comment: Page 10, lines 208-217: Authors describe and quantify the effects of NESTE and SBE, represented in Figure 2. However, they do not specify at which concentration. Since NESTE and SBE have been tested at two concentrations, the results have to be more clearly reported.
Response: Authors thank for the suggestions and have added the concentration of NESTE, SBE and reference compound curcumin in page 10, lines 209-218.