Author’s response to reviews

Title: Anti-inflammatory effects of a methanol extract of Dictamnus dasycarpus Turcz. root bark on imiquimod-induced psoriasis

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Author’s response to reviews:

We carefully reviewed reviewer’s opinion and revised the manuscript and result of the experiments.

Our response to Editor and Reviewer’s comments

Editor

1. 2. 3. 4.

All revised.
Reviewer 1

1.2.

I agree with your opinion. Unfortunately, we were unable to perform the chromatography. Instead, we refer to the known phytoconstituents of MEDD as reference (Page 4, line 16-19). We have correlated these ingredients to anti-psoriasis effect (Page 14, line 4-6).

3.

Yes. Psoriasis is a disease that affects both men and women. However, there was a report that female mice had worse symptoms of psoriasis by IMQ than male mice. Therefore, we used female mice to more clearly identify the effects of MEDD (Revised in page 6, First line).

Reviewer 2

We rewrote the manuscript and modified the form to fit the BMC Complementary and Alternative Medicine according to your thoughtful opinion.

Abstract

We have improved the summary. The design and conclusions of the experiment are clearly modified.

Background

We modified background according to your opinion.

Materials and methods

We added the Reagent section.

We have tried to improve the description of MEDD manipulation.

Ethical committee permission number was added.

The entire contents have been revised to make it easier to understand.
Results

We have simplified the headline and rewrote the entire contents to make it easier to understand according to your thoughtful opinion.

We discussed the reason for vehicle toxicity in the discussion (Page 13 line 18~)

The Western blot was retested and the statistical treatment was modified (Fig 4). STAT3 and STAT1 expression was higher in Vh group than IMQ but there was no significant difference.

mRNA measurement showed that only IL-17 was reduced by MEDD, so only IL-17 was measured in blood.

Discussion

We are totally changed according to your request. STAT5 was not shown because there was no difference. However, it was judged to be unnecessary and deleted from the manuscript. glycoside was modified with phenolic glycosides.