Reviewer’s report

Title: Calycosin-7-O-beta-D-glucoside Promotes Oxidative Stress-Induced Cytoskeleton Reorganization Through Integrin-Linked Kinase Signaling Pathway in Vascular Endothelial Cells

Version: 2
Date: 24 May 2015
Reviewer: Jing Lu

Reviewer’s report:

This study investigated the function of calycosin in LPS-induced endothelial injury, and found calycosin could promote oxidative stress-induced cytoskeleton reorganization in HUVECs, possibly through suppression of Rho/ROCK pathway and regulation of AKT pathway. It’s an interesting and meaningful research.

Minor Essential Revisions:

1. Valsartan is an angiotensin II receptor antagonist. Please explain the role of Valsartan in this research. Is it a positive control? As Abstract part shown: ‘as well as through comparison of the effects of calycosin with the reported Rho/ROCK inhibitors.’ does it mean Valsartan also is a Rho/ROCK inhibitor except Y27632?

2. There are five figures shown in the manuscript. However, these figures were mislabeled in Results part.

3. In Results part: Effect of calycosin on gene and protein expresses of HUVECs induced by LPS “PCR microarray was employed to screen the genes that might be involved in remolding of endothelial structure and function. The results are listed in table 1.” However, I couldn’t find Table 1.

Level of interest: An article whose findings are important to those with closely related research interests

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 I have no competing interests.